

Tips for Need for Speed III, Final Fantasy VII, and more!





'68 Chevrolet® Camaro® as driven by Mark Donahus



TAKE THE ORIVERS SEATI ekzits with automatic head conning.



accurate road courses

'69 Ford Mustana Dan Gurney



TRANS=

· Control real-time Pit Crew activity





'70 Pontiac\* Firebird as driven by · Gameplay modeled after authentic car performance and drivers' genuine racing styles

. Compete against your friends over modem, LAN and into · Record and Playback races with built-in 'VCR' feature

ENTERNAMENT OF THE '70 Ford Mustana as driven by Pamelli Jones



#### Back in the 70's, cars were really cars.

Engine size ruled. The Firebird," Camarg® and Mustang were kings, building legends, striking awe in the hearts of drivers. Turn back time in this thrilling state-of-the-art 3D racing simulation. Experience the rush of racing classic American muscle cars in the hottest racing game of any era. Pound asphalt on historically accurate road courses. Survive crack-ups in fender crunching 3D collisions, rollovers and spinouts. Go to the wall with the most advanced network and head-to-head modern play. Experience the American road and American cars the way they were meant to be, Wild!













o GT brissabus Bohase Con



# Drive By Shoot









I gamp-upseths vehicles sech with Blest rivel gangs with over performance cherostraisses and your appointes' rich or clies apars capabilities. Wow every uns

ney prouspecting parks.

warlord. Prove your skills in the arenee, eliminate gang members and destroy all these who oppos

# ings Required!

















ker directly call 1-800-245-7744



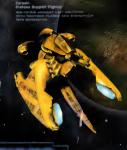


## MORE UNITS. MORE WORLDS









# MORE WAR







STARTRAFT EXPANSION SET

# YOU'RE GONNA TE







YOU HAVE BEEN SELECTED TO LEAD THE ROGUE SQUADRON IN COMBAT AGAINST THE EMPIRE.

HERE'S YOUR DRAFT CARD.



STAR WARS

Your duft castl A 3D secretains card, of course. It's the mandstory hardware of secretary for you to othic in a band new, appli-fire New War at centabet expectance. Room Seadance 3D lannare youards in the lose of lack Seywhele, leader of the Robel Alliance's this air corps, as you pilot a broad range of well-termed startifysters, From X-mings, Nowing and A-wings to sunwaperchets, or Emerica in over 1.5 mission (daw and infalt)—code perming the west Sew Wine.

ouill be able to unleash Rebel weaponry on the evil Empire in over 15 missions (day and night) - exch spanning the wast Sov limniverse: Blast AT-ATs, TIE fighters, Imperial shuttles and more Strap in/young Skywalker. It's the fight (and flight) of your life.









**FEATURES A-10** Warthog

It's slow. It's ugly. It's mean. Nicknamed the "Warthog," the A-10 Thunderbuit II

is a giant flying tank-killer that packs enough wallop to hammer the most formidable of opponents. And guess what, flyboy? It's your turn to hit the skies. Are you ready?



#### **Build the** Bionic PC

Why get some crappy, thrown-together beater box from a

discount computer center, when you can build the perfect garring rig yourself? Loyd Case shops for the perfect parts (for any budget) so you don't have to.



Flv! Can Terminal Reality's newest flight sim outgun

Sierra, Microsoft, and Looking Glass? it's not a better chance than would think 60



#### Babylon 5 Space Combat

nulator Can this new space sim rescue the licensed compute game market? If Develop Silvera FX stays on track. very well could, 68



combat. In this tank sim, you'll be able to track through Tunisia. Sloby, Italy, and take it to the Fohrer all the way to France, 72

## Psymosis promises many hours of WWII-era



READ.ME KISS: the Game . Babylon 5 Interview . New Ion Storm News . Digital Anvil Unveils Lineup • Cendant Software Sold • and Much More!!!

GAMER'S EDGE

and running, 246

Motocross Madness

this great F-22 sim. You don't have to

take his advice...unless you like failure. 252

Greg Fortune uses his real-life racing prowess

to help you zip and zoom your way to the

Total Air War KC Basham gives you your orders in

Caesar III It takes much more than a floor plan to build Rome in a day. Tim Carter helps you get things up

#### HARDWARE

Hardware News Lovd Case You may have some anhibely culants Layd helps you spired things up a bit 148 Alter-Lansing ADA70 speakers 152

Creative Labs Graphics Blaster RIVA TNT 152 Saitek R4 FFB Wheel 154 Creative Labs 30 Blaster Banshee 154 Saitek Cyberg 3D Gamepad 158 Multitech Multimodem USB 158





This dream world can quickly turn into a nightmore if you're not prepared. Let Scorpia show you she way 257

Creatures 2

Mark Clarkson gives you some much-needed hints and tips on keeping your Noms alive long enough to enjoy them. 258

Gamer's Edge Tips Tips for NEED FOR SPEED III. WAR ALONG THE MOHAWK, THE OPERATIONAL ART OF WAR, TOTAL AIR WAR, and more! 260





Ruff-Life 🔺 Delta Force Space Bunnies Must Die Wallance Fighter Prior Ry Hunter Hone Cram

European Air War Red Baron 3D Freespace: Silvert Throat Handwar Prophecy Gold

#### venture/Role-Playing Grim Fandarese



Blackstone Chronides 🔺

220

222

236

242

243

266

244

Stratony/Warns WAND 5

#### checkered flag. 256 DEPARTMENTS

Johnny Wilson is copy protection on its way back? .... Denny Atkin Why mission design is so critical in simulations

Terry Coleman Where have all the good, independent game companies gone? Letters Final missions and submissions On the CG-ROM Demos, tools, and goodles on CD

On the Web Recommended reading on GameSpot and CGW Online Reviews Introduction Reviews Index Three months of pame ratings ...

Hall of Fame The greatest games of all time . . . Top 100 Readers rate the top games .... Greenspeak Green cracks the seal on his inaugural box of Depends

21

24

Enemy Infestation ... Lords of Masic Special Edition uzzles/Classics Clue: Murder at Boddy Mansion The Game of Life

Sports/Driving

NBA Live 99

MR Bareholl 2000

Caesar's Palace Stats Jeografy... Star Wars Droidworks Hoyle Board Games

Sentinel Returns







interstate

# This March, the Kingdom



# is yours for the taking.



#### Aramon · Veruna · Zhon · Taros

The four kingdoms that define the realm of Darien. For centuries, four immortal siblings have been locked in an epic struggle for eternal rule.

The time is now to choose your allegiance and plan for the largest Real-Time-Strategy war ever waged. Massive armies of undead foot soldiers, dragons, horsemen, skeleton archers and knights will clash in a full on metee that will shake the universe forever.

#### **Features**

- Four unique sides with different build hierarchies
- Handware support for improved graphics and special effects
   Rich, in-depth story and character development
- Lay siege to costles and cities
  - Non-player humans, wandering monsters and life forms
  - Pre-built multiplayer bases and/or units
  - Multiplayer scenarios & varied victory conditions
  - Switchable radar/main map view
    Custom keyboard mapping
  - Mukiplayer capabilities over LAN, TCP/IP, modem and Internet
  - Play free on Cavedog Entertainment's Boneyards"







Easy to play. Hard to resist.













ROTATE THROUGH SPELL AND ITEM BELTS TO IMMEDIATELY ACCESS WHAT YOU NEED.

 CARRY UP TO 30 WEA AND MAGIC ITEMS.

# TIME TO REMODEL.

#### REVOLUTIONARY LINIT DESIGN

#### SUPERIOR ARTIFICIAL INTELLIGENCE

#### FULL 3D BATTLEFIELDS

IT'S TIME TO TAKE YOUR PATE INTO YOUR OWN HANDS. THEN USE THEM TO BUILD A NEW WORLD

















Africa. Play against the computer or Online with up to 16 would-be commanders, all vying for a share in the ultimate glory! YOU'RE IN COMMAND! DOMESTICAL Enhanced Campaign Mode

8 NEW Campaigns covering North Africa, Italy & NW Europe 50 NEW Scenarios including Para-drops, Gilder & Amphibious landings, Commando ralds & Deep Desert Patrois! NEW Improved Al **NEW Command & Control** 

500 NEW Equipment & Unit Types **NEW Linked Historical Campaigns** NEW Macro & Accelerated Moving



WWII G.I. COMBAT!



www.talonsoft.com @Copyright 1999 TalonSoft Inc., P.O. Box 43730, White Mursh, M.

#### **Back to the Future**

Ye Olde Copy Protection Will Return

t the risk of turning myself into a pariah, let me succest that the dark ages of copy protection will soon be with us once more. Those of you who are new to the hobby may be horrified to discover that, in the had old days, gamers often couldn't start a game until they had answered one to three questions-by looking up answers in the manual and typing in the correct answers. Some may not remember the alorious days when you could start a game without assistance from a code-wheel. but might have to look up vital information and type it in while in the midst of your game. For examole to not Borket Ranner from Egypt to the United States, you had to use the code wheel to get the mixture just right and type it in or you would run out of fuel and fall to your demise in the mid-Atlantic. With WORLD TOUR GOLF, you could

but needed to type in code-wheel data to open up the full courses. Other forms of copy protection were more egregious to legitimate owners. Look up tables were printed on nonreproducible paper (so dark that the exist would recede into pure gray if you tried to photocopy them) and in light blue ink that required a sed cellophane filter. to remove the red that covered over the blue) to be legible. Key disks had random bad sectors so that you couldn't copy them. Even authentic copies of the games

play a few holes on each course

couldn't be used without a key disk. Lenitimate namers who had nurchased the games with their hardearned money were restricted by the ball and chain of copy protection because they had to keep track of manuals, code-wheels, look-up charts, and original disks to play the games they had purchased. Worse, their gaming experiences were often interrupted by password

checks and napping messages about piracu

Copy protection was a hassle for everyone, and it didn't solve the nenhlem. Hackers could still break the protection schemes. Systems like the Atari ST and the Amina eventually succumbed to the onstaught of piracy as worldwide unit sales dropped into the low thousands-and sometimes.



favorite games to give to their friends and work associates. for a while it looked like the DVD would come along in time to save the industry from havion to use traditional forms of convince

tection. Yet, the DVD hasn't penetrated as fast as needed. Some of us wanted the inclustry that, while DVDs wouldn't take quite as long to penetrate the market as CD-ROM drives took, it would still take a year or so longer than most projections. We were wrong, it's taking at least a year longer than our conservative

projections. This means that the DVD worn't solve the problem. But the problem is worsening. Recently in Europe a warname from a small company outsold a major release from one of Europe's biggest publishers by more than a

and both dealt with subjects that would appeal to the wargamer. Indeed, the major release was about WWII, meaning that the "Nazis, NATO, and Nukes" credo (i.e., that only WMI, modern warfore, and nuclear war scenarios self) should have given it an adventage over the medieval era wargame. The wargame merely sold numbers worthy of a successful name in the small wargaming niche. The warrante-related title from the large publisher sold a more fraction

3-so-1 ratio. Both names were

released in the same time period

of the warpame's numbers after all of the returns were factored in. The wargame was copy protected. The major release was not. European retailers believe that they were victimized by the lack of

#### The dark ages of copy protection will soon be with us, once more.

limit or outlaw returns, and gamers were the eventual losers Then something hangened to change all of this; the long-awaited ariyent of the CD-ROM, CD-ROM burners were expensive and game designers/software publishers were finding enaugh www to fill the CDs. ûncluding the use of digitared video and sound files) that it wasn't worthwhile for the average person to copy games. Today, this is no longer true, CD-ROM burners are

inexpensive and games are easy to conv. Most II.S retailers no lenner accept returns (although some Electronics Boutique stores are reputed to be selling used cories of games-a trend that can only hurt the overall gaming industry even more than the existing low margins and high shelf-stocking/MDF fees), but sales are still going to decline if gamers pirate copies of their



copy protection. They are telling Furneean publishers that they will not accept nonprotected games in the future. They are also hinting that they will not handle European SKUs (Shell Keeping Units) of U.S. titles if the U.S. SKUs aren't protected-even if the European SKUs are protected, Why? Because they will lose sales to the gray market and direct sales if the European units are protected and the U.S. units are not. This means that European piracy is going to affect all of us. At least until the DVD becomes the new storage standard, we're oping to be faced with the bad old days of copy protection once again. Doheleth, the wise man of the Song of Songs, declared that "There is nothing new under the oun." Get marky for that corlowheel revival. Major publishers are



"The first and foremost" """
must-buy title of the season."

- PC Gamer.

## LIFE

"A dizzying marriage of non-stop action and narrative.

- Computer Gaming World

"Tour de Force...a symphonic blend of action, drama, adventure and story."

"Half-Life is the best

3D game in existence."

"Half-Life restored my faith in gaming."

"Oh...my...God."

- Adrenaline Vault



VALV





### **Campaign Promises**

#### Mission Design Can Make or Break a Sim

any gamers consider the dynamic camparon-where missions are algorithmically generated After all, dynamic campaions

depending on the results of previous combat results—as the Holy Grail of flight smulation. ensure that you'll never fly the same mission twice. The problem here is that previous dynamic campaign generators have created missions which, although unique, so closely resemble previous missions that they quickly grew repetitive. So much so that these sims didn't offer much more long-term gameplay than sims with scripted missions.

A notable exception is LONGBOW 2. If certain conditions occurred, the sim would trioper a prescripted mission that featured details and plot twists unavailable in dynamic missions. This is perhaps the current best compromise since we're a long way from the dynamic campaign system that will be able to generate atypical missions, such as shooting down Admiral Yamamoto or taking out a terrorist enclave

#### **Dynamic or Scripted?** What's the most important ele-

ment of mission creation? Andy Hollis, LONGBOW 2's producer, says "You have to make a compelling mission environment in which to play the game: enemies that work together to defeat you, unexpected subfleties, and plausible reactions to anything the player does."

Add replayability to that formula, and you have a setup that should make most sim pilots happy. The entire war doesn't have to be generated dynamically. After all, how often do the actions of a single pilot-even over the course of a year-truly affect the outcome of a war? There's no denying that

dynamic campaigns are the ultimate in "living" bottle environments But a scripted mission structure can work as well, offering a human design touch that can flesh out a mission and make it even more believable and unique than an algorithmically generated bettle. The biggest complaint about

predictable and, upon replay, feel

scripted missions is that they're

game, they should keep the following points in mind when designing their scripted mission system:

1) Randomize, randomize, randomize. Replaying a mission isn't that bad if you don't know when the enemy is going to annear or what its location and altitude will be.

> 2) When a target is destroyed, it should remain dead-at least until enough time has passed that it might be rebuilt. There's great satisfaction in flying over the ruins of an enemy ball bearing plant you wiped out a few missions ago on your way to the next target.

3) When a target isn't successfully destroyed, send the player 5) Make a living battle environment. Your mission and your targets shouldn't be the only units in the skies or on the ground. Along with targets of opportunity you should occasionally encounter enemy strike groups heading toward your territory, crippled bombers needing escort home, or lone affled fighters caught in a dogfight and in desperate need of a hand. Little truches like this, on occasion, can do wonders for making you feel like you're flying over a real battlefield.

6) Mission goals should be realistic. When there are 15 enemy planes in the air, specifying four specific target aircraft as the "goal" aircraft for winning the mission is absurd. Set a

#### Like sausages, the worst case is when a mission reveals obvious hints about its origin. against it again. But don't just

If o puzzles. Playing the same mission a second time, with enemy aircraft appearing at the same time, in the same place, ruins your suspension of disbellet The space sim X-WiNG is a perfect example of this-not only are the missions identical each time you play, but there's generally only one method for successfully accomplishing mis-

sion goals. Dynamic campaigns are a solution, but they take massive amounts of development resources. Companies can't realistically incorporate a dynamic campaign in every sim they create.

#### Do It Right

If designers take a scripted setup and add certain levels of randomness, scripted missions can maintain much of the "reality" of a dynamic campaign. If designers can't put a dynamic campaign in a in real trio

repeat the mission. This time around the enemy defenses shouldn't arrive at the same time and place as in the previous mission (see #1), and any defenses destroyed on the first attempt should remain disabled.

4) Similarly failing a mission shouldn't mean you'll have to replay it over and over again until you get it right. There should certainly be consequences-put the player on a mission track where the enemy is advancing or force him to fly future missions with fewer wingmen because of loss of pilots or aircraft. Give the ontion to refly a mission. but allow those players who are more interested in role-playing as a pilot the chance to suffer the loss and move on-as would happen

percentage, such as "wice out 75 percent of enemy air assets," or base success on the enemy not achieving its own goals

It's not about whether a campaign is dynamic or scripted. it's about whether the campaign is believable. Avid sim pilot Robin Lee perhaps puts it best:

"I view mission generation and campaign dynamics in the same light as I view sausage producfion: I don't really want to inquire too closely into the details of 6ther. The Illusion that I want to maintain is that missions are generated by a real operations staff reacting to unpredictable events, not by a software campaign engine or by selection from a fixed database of mission scripts. And like sausages, the worst imaginable case is when a mission reveals obvious hints about its origin," [332]

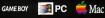












**BUYGAMES.COM** 

The Internet Game Superstore

## BLACKSTONE ASYLUM

FASTEN YOUR STRAIGHT-JACKET. IT'S TIME TO
DAMERSE YOURSEE IN THE CHELLING WORLD OF
JOHN SAUL'S BLACKSTONE CHIONICLEST AN ADMINITURE
IN TERROR – THE HEST COLLABORATIVE EHRORT
BETWINN NY TIMES HES SEILLING AUTHOR JOHN

SAUL AND LEGEND ENTERTAINMENT, STURNING 24-BIT ARTWORK SURROUNDS YOU IN THE EVIL THAT IS BLACKSTONE ASYLUM — WHERE TORTURED SPRITS FROM THE

BLACKSTONE ASYLUM — WHERE TORTURED SPRITS FROM THE PAST OFFER YOU THE ONLY HOPE OF SAVING, YOUR MISSING FAMILY, AND YOUR SANITY, BON APPETIT.

John Sauts Hackgrone O'hronicles

WWW.BLACKSTONE-CHRONICLES.COM

ACTUAL GAME SOR

Abo Sad's Backstere (Stronder An Admisson In 1939 (1958) Montage, bot All riples served John Stad's series sed flowers are this properly of John Sool. The object even "the Editobase Chromolow" (1968) Also Saul Sead under Sorres by Mindologe, loc. or conjunction with Especif Editobase Chromological Sead (1968) and Salar Sadan Sadan Sead (1968) and Sadan Sadan





#### Vote Independent

#### There Are Still Small, Maverick Companies Worthy of Your Support

ack in 1994, tucked away in a small corner well off the main show floor at the Consumer Fleetonics Show (CES) was a small offshore of adutairment mayon Davidson called Blozard, showing off its single, modest name title. When former strategy/ wername editor Alan Emrich and I got our first demo of WARGRAFT in that two little more-from Alan Adham, the president of the company, no less-we were hooked. And I know, does down, that this

charming little upstart of a company would be a big player in the industry. Though, never in my wildest dreams could I have surmised that it would produce three million-unit sellers in a row. But even while the quality of Mizzard's names is still quite high, you simply can't count them as an independent any more: Uke it or not, our friends in Irvine are

part of the CUC behemoth. The strain of that relationship, despite Mizzand's success, is starting to tell. If you want evidence, look at the talent that has left Rizzard. as well as the cancellation of WARCRAFT ADVENTURES, and feel free to advance your pwn conspiracy theories.

Where are all of today's independents? There are fewer of them, and while they're more niche-oriented than in years past. they're still relevant. If for one minute you doubt this, ask yourself. where the current 3D-shooter craze would be if another small moverick ad Software, hadn't reinwented the necre with WOLFERSTEIN 3D. and Donas

The following, then, is a list of the last of the true independentsthose companies that sometimes exasperate us but almost always challenge and entertain us. May

they continue to be passionate about their craft and to carve out market niches well into the next



TalonSoft Notable Titles: **RATTLEGROUND SERIES** OPERATIONAL ART OF WAR

WEST FROM www.tafensaft.com

Monolith can lay claim to being the next Bluzard, the company will have to avoid beneheaded decisions, such as shipping \$1000. knowing full well even before the pame hit the shelves that a major natch would be required for multi-

TalonSoft has yet to release a truly bad game.

Notable Titles: BLOOD 2

Of all the independents Monolith has the best chance of rising above the growd with its wonderful 3D engine, LithTech. Everyone in the company from the PR folks to the CEO, seems to be a pamer-what an unusual concept in this industry! But before

alliance with incredible Simulations, those paragons of very playable "last-stand" games, might seem strange at first plance. But both companies focus on subjects proved by mainstream publishers. such as Custer's last campaign and obscure armor-fests in the Ukraine during WWIL If you get tired of relighting Gettysburg or the Battle of the Bulge, these companies'

#### games offer a great alternative. **Big Time Software** Notable Titles:

**FLIGHT COMMANDER 2** ACHTUNG) SPITFIRE

www.bigtimeseftware.com Charlie Moylan is another of those one man wonder garning shops who has actually enjoyed some retail success. Now that

#### Where would the 3D shooter craze be without another maverick, id Software?

When Jim Rose felt stiffed running the computer division at Avalon Hill, he left to form his own warpame company. While it has at times used outside distributors. TalonSoft has recently managed to go completely independent, and the company stays successful by giving its fans what they want: the best combination of realism. profice and playability in the business. Not only did every come. in the BATTLEGROUND series, for example improve on the last but TalonSoft went to the trouble of

retrofitting those enhancements on the entire line of cames. While TalonSoft may have a reputation as a group of insone worksholics the formula seems to work. The bloom's still on the rose since

learned from their mistakes, keep your finners crossed.



Notable Titles: TIGERS ON THE PROMI 2 REMEMBER THE ALAMO! ZULU WAR! www.hessims.com, www.isinames.com

HPS' wargames are so realistic that they sometimes make TalonSoft's games seem like casual historical fare, HPS' games lack slick graphics or simple interfaces. but they reward the serious student of modern military history like no other. That HPS has formed an

nlay and Al. So far these folis have Movien is no longer developing games for Avaion HfL it will be interesting to see how well Big. Time does in the big leagues. Movies plans to release COMBAT MISSION—the game formerly known as ADVANCED SQUAD LEADER, now possessing no trademarked information from that

title-and market it himself. Since realistic and playable turn-based WWII squad-level 3D cames are not something you boot up every day I think he's not a shot. (See our preview of COMBAT MISSION in last month's strategy/war counting LEGIST

Terry Coleman is currently playing FIFA '99 and wondering how the United States ever qualified for the World Cup.



# "...performance so extraordinary it will change the next generation of games."

"... parformance was botter than any 20/30 combo eard for large, an top of that, games liss squared in an History StMULATOR 98 looked special of 10/44/98 and 1230x 624 Importantly."

A dentitibility would be not of line imaging that when it somes in Direct 3D performance the Vaccity 4600 pixes the first, one imaging the Vaccity 4600 pixes the first, one imaging the indirect and the second of graphic acceleration...

computing in an areas with the likes of the Sewaje 3D, Bandhes and 0200. All of these it will best handlijk, they are the Kings of the 20/3D combo card!"



- RIVA TNT" 128-bit 3D/2D and video occelerator
- 16MB of memory far resalutions up to 1920x1200
- 250MHz RAMDAC for refresh rates up to 160Hz
   Output to monitor or TV (s-videa & composite)
- Windows 95, 98, NT and OpenGL support
   Lifetime warranty and unlimited tall-free support
- Available for AGP and PCI bus





COMPLETE FIFTH BEDDINGES OF THE CON WHICH THE PROPERTY OF





boo Uniocke

Editor-lar-Oxiel Johny Whan Executive Editor Kon liness Managing Editor for Villian Features Editor Beny Editor Genilatood Envisors Editor Intry Colomo (Neganis Technical Editor Day Subaro Oxidovid Associate Editor Lell Gue (Adventue, Spo

Associate Editor Influence (September Sport)
CO FOM Editor Intelluence
CO FOM Editor Intelluence
Editorial Assistant From Proce
Editorial Assistant From Proce
Editorial Information Basic
Coordinating Editors Sport

Charles Ardin (Interactive Fiction), toyd Case (Handwise)
Founder Fiction Spe

Art Director Ass Supetick Associate Art Director Stones Wangain

Production Director Cofes Lago Production Manager Marie Webst

Electronic Fregress Group

Hanager Wichel Kelogy
Assistant Hanager Tomas Grope
Technical Sans Senio

Address questions and herdreck or CENTEGRAN, TJS Mon St., 1981 Hour, See Francisco, CA 94165.

Educal Fig. (415) 352-4920 Educal Fig. (415) 352-4927 CGM6cters/Unit com Steb site: www.computerspaming.com

Austrianis Stats

Austrianis Stats

Austrianis Sulanne Rader (45) 353-495

East Coast Sales Ranager Laws Planning (112) 503-485

East Coast Sales Austriant Mean Monn (212) 503 2015

Seathwest Sales Manager Fot Wishs (MR) 55-1556 (out/beept Sales Assistant Santy Moranait 1918 553-5714 Midwest Sales Manager Moro Yanoyush (11% 57-4564 Silicon Valley/Werthwest Sales Manager (Na Moranaeco (11% 272-965

Marketing Manager Set Shares (PS) 157-4305 Hatileted Account Rep James Cony (415) 357-4505 Metertising Coordinator (side Hennigha (455) 357-4500 Analyticat to the Publisher Linds on (455) 357-4500 Account Econystotative Side Concer (416) 423-423

Address sequifies to CGro Aubertriany. 135 seau 91, 14th Floor, Sen Francisco, CA 94105, or call (415) 257-5398, fee (415) 353-4999

Vice President on Lan Builtes Meager Cyrlin Moon Associate Essings Manager String Discoun

Executive Director, Named Say and Executive Executive Director, Named Say and Executive Executiv

INTELLISE USSS

FOR periodicity materials of our continues would be to enhanced good and amount the polymeratives good and amount that the periodicity managings of our will be continued to enhanced the continues of the continue

## LETTERS

#### **Canadian Joke Butt**

Hugh Jass? What is he, an idiot? Quere, Scennice 98(1) in a Centale—Milled Medichard—and all behind her to save the first of the Good. Downward Feed dip? Tale it on on Condon! I thought it was from the save the and. "Should by a banked Congreto took Seeder," in use intight. It great was a "Should by a banked Congreto took Seeder," in use intight. They make to me!! Some people may have been insulted by the all, but proud one en our they to write to compain them pains, in 19 this, how may a la from people in the Willed! X and considered in the property of the congreto of the little to save people in the Willed! X and the considered in the property of the little save people in the Willed! X and the considered in the control of the little save people in the Willed! X and the control of the little save the control of the little save people in the Willed! X and the control of the little save the save the save the control of the little save the little save the s

Native of Toronto

Half-Swedish, half-Danish gamer babe? Whoa. Need any editing done around the house?

If got the to say, much the gap that called himself high last is a total local. That whole these complaining about the fourth Deceasers and so such as ways filting 5 of it may prod Cannadian und of fort 'fact' it definables. See, I reself and said. "They, what's the big site?" Int. Contradiant of the contradiant of the contradiant is such as seen and the site of the site of the contradiant is about the last of the contradiant is such as a contradiant is made and an advantage of the site of the contradiant is about the last of the site of the contradiant is an advantage of the site of the contradiant is about the last of the site of the contradiant is an advantage of the site of the contradiant is about the contradiant is contradiant in the contradiant is an advantage of the contradiant is cannot be contradiant in the contradiant is contradiant in the contradiant is not the contradiant contradiant in the contradiant contradiant is cannot be contradiant in the contradiant contradiant is contradiant to the contradiant in the contradiant contradiant is the contradiant contradiant in the contradiant contradiant is the contradiant contradiant contradiant in the contradiant contradiant is the contradiant c

Tombini Jones Via the Internet

#### Johnny's Evil Twin Discovered

Hence there was serreiting strange about the New Jersey Devils sports writer in The Record, a large New Jersey newspore, Well, Desiden naturally despring this gay for being a lark was Devil Ian (in a New York Hanger Inn.). His more there was contenting dise about the way he looked. Then, I realized in—the gay looks New Johnny Wilson! Could libe his evil twin Jerry Devil farm must be evil or could it be that.

Both use the same barber?
 Both don't believe in shaving?

Silv Franchies, will they ever learn?

Both use the same optometrist?

More H. Strother Via the Internet





THUSE WHO

CANNOT REMEMBER

THE PAST ARE

CONDEMNED TO

REPEAT IT.

TO HELL WITH THE PAST ... HERE'S THE FUTURE!







ZIFF-DAVIS INC Chairman and CEO inc August Chief Financial Officer Tunoby O'Srun

20 Publishing Claude P. Sheet 20 Market Intelligence Leb Brown 20 Comdex and Forums Jason Chadnoble

ZD Television LavyW Marghay Senior Vice Presidents Flavos Sepan (Human Resources)

Vice Presidents Stove Gladysorvesia (Information Services) J. Makoba Morro (Govern) Counsel and Socretary)

Treasurer Thomas L. Wright Comparate Sales for Gilleron (Carcutor Von President)

ZD Media Hetwork Jelf Seats (Tarcutus Director)

ZD Brand and Market Services Spooks Carroll (Vice President, 20 Sound Minheling) Pedigyeki Olice President, Chers Marketing Helb Stew Office Fresident, 20 Ented Management) Geogory Imbox (Director, Corporate Relations)

> Fresident Goods P. Shoot Executive Vice Presidents

Senior Vice President Huncy November

Rub Endo, John Dodge, Einthless Goodway, Roger Herrmann insulan Lane for European for Marriage, Charles Mart, Lanes E. Executive Director, Licensian Seried Serbarb

> Director, Tenchmark Operations Int Catchings Director, 7D Labs Lauren Black Editorial Director, New Products Fill Machines

COMPARER GAMES MOREO EVAN EVAN MAN IS ON MARKET MORPH'S be ZEF Gross Copyright O 1990 ZEF Gross All Eights Forecood Material in this publication may not be reproduced in any four without permission Avenue, New York, NY 10016-5102, or fax 213-502-5420



Computer Garning World's not of Easter with MC





"Bad Moon Rising" (CGW #174), However, I disagree with the basic comparison of the PC industry to the console. Having been on the front lines of PC comes for many years now. it's clear to me that you're comparing apples

### I take it you're not gonna wait for the patch!

### Corrections Fan First, let me congratulate CGW for being

the best gaming magazine throughout 1998. Every part of the mag is getting bigger and better, except the part I like most, the Dep't. Of Corrections. The first thing I check out is the Dep't. Of Corrections to have a good laugh before I start reading the mag from the beginning. So could you please make more silly mistakes so that I can have a good laugh?

I hate to say it, but I love my room more than CGW (don't sigh). So when I buy CGW every month I am left with little money to decorate my room. The only effective way to decorate my room is via the poster included in CGW. So could you please urge and encourage the developers to include posters of their most recent games in CGW71 know it will be bord but I really want to see plant poster of Lurker from Brood Was lurking in CGW in the near future.

P.S. I don't want to be in distress for not able to decorate my beloved room. :(

Wa the Internet

Funny you should say that, it might not be

Beaco Wee furking in your future, but have you seen Simon Rickey's stuff for Heavy Mezas FAKK 27 Get mady to be bassiv. Good points in Johnny Wilson's editorial

# **New USB Modem**

and then we will see true improvement. is a 56K external USB modern on the horizon?

MultiModemUS8 V.90 modem.

to granges. The ultimate objectives of the two

camps is fundamentally different. The console

that will last for decades, even generations, as

a result of which they will error preet profits.

The PC game developers intend to enjoy great

There is no doubt as to the abysmal quality

of most PC games, but railing about it will not

change the PC developers attitude. It is the

intentional use of high-pressure schedules

overhead and high profit margins.

and minimal investments that result in low

PC games industry is nothing short of a get-

sharps and other crooks to suddenly charge

is not realistic. Instead, we should be

educating the public on how to get their

rich quick scam. To expect the bucksters, cord

their methods in the midst of so much income

money back on a bad game, or even how not

to huy one in the first place. Attacking the

drivel is futile. Stem the demand for drivel.

developers as the source of all this PC-name

We need to be honest with ourselves. The

profits, and don't care much what they need

to do to get them.

name developers intend to build companies

Via the internet Your wish is our command. Check out

page 158 where we review MultiTech's new

Miller Kedinohan Via the Internet





# ON THE **CG-ROM** DEMO DISK

# Lay Your Hands on Me



### February CD Titles

Get the CD-ROM To subscribe to the CO-ROM version of the angusine, call (SOS) 665-1930. If you airendy receive the magazine neithout the CO, you must wrist until your current salso ligition express before recovering the CD sension. Got a question or compleme



Provide divine impiration for your tribe in three screening.

Ride down a couple of slopes in this snowboarding game.

Play one large, four part mission in your sailty tank.

Sample the first 10 minutes of this port of the successful PlayStation become some

Play one mission in a mecha and one mission en-foot in this anime-style-shooter

### PRODUCT NAME/ GENRE EXECUTABLE DESCRIPTION AGE OF EMPIRES: THE RISE OF ROME

Real-time strategy age ronlyspages, per Play three scenaries as the Certhaginisms in this dome of the reservoire day. ALIEN VS. PREDATOR: PREDATOR DEMO First-person shooter ave endatement on Play as a Predictor egainst the Aliens and the Colonial Marines. **CHRON X ONLINE** Card game chean similarital rec Front end for this cyberpunk version of Magic CYDONIA Mozatele adventure cudorda/ordania.ese

Third-person shooter heretic 2/setup out LORDS OF MAGIC: SPECIAL EDITION lom sectabl SEDerro con Turn based strategy MORPHEUS Misr style adventure morphoushetup exe POPULOUS: THE BEGINS Real-time 'ged' game populous/pepulousdema.zee

Selve two puzzles in this sci-S Mrsz-style game. HERETIC II Play through two single player and two multiplayer Play a scenario is this patched update of the original Louis or Muse. Solve a few puzzlos in this recently enviewed adventure.



game	recolireculese
entare	resident evilitesident and

First-person sheeter shoor/sheeding ear SNOW WAVE Snowboarding game snem wzweisetup.exe

front-end for TEN, where you can play a variety of multiplayer games. TONIC TROUBLE 30 plutform game demett/set.ptt.ese TOP GUN HORNET'S NEST



Rup and jump through a few levels from Util Soft's Mano 64-style game. tenant hersetyltchedense ear. For your FIX-15 Homes in two missions from the compains

warzene21008 etup exe Play one scenario in Eides' new RTS that lets you design your own units. AM trailer of Sega's new high rise builder. yoots towestower asi



THE PROPERTY OF THE PROPERTY O

A 17 (A)

COMING 1999





R logo are trademotis of TSP, linc, and are used by wowyby under iconore TSP, tac, is a publishing of Woman of the Coost, linc, lin nake of bringing Productions: Exclusively Iconored and contributed by bringing Productions. All other trademotive and excipations are



# GL OFFICIAL NEWS UPDATE

The First Pro Sports League for the Computer Gaming Crowd

## noratolations. Season 3 M r \$100,000 in Cash & Prizes were awards

The Diamond Multimedia Championships of the AMD Professional Gamers' League - the live finals event for the PGL's third season, were a huge success, with several thousand fans attending the three-day event at Club-I in San Francisco. And thousands more followed the action via The All Games Network's live Webcast!







defeating Robert 'Kin\_Doin' Chan in the Storcraft s-on-s finels, PGI, Commissioner Holan Bushnell Joins In the calebratio



Donnis "Thresh" Fong gets a congratulatory hug from runnur-up Kwt "Immortal" Shimada followin the Quake II champlenship round.





Crowds stared in wide wooder at the spectacle of pre computer gaming in The City By the Bay Slanding-ream only was putting it mildly!

The members of DusthRow Clan, "Unhaly", "Repute"
"Thrush", "Ba" and "frick" hold their first-place
traphy and a three for See, and The spale of their
victory area second-above finisher Clan Gib.

chick and traphy of the day, including his PGL Scasary AND? Amard and prize, Thresh wan nearly SsB, and at the Diamond Champianships of the AMD PGL-nal bad for a weekend's wark! James "Billox"Page, the Quake II champ from England, faced Thomas "Night" fanovsky the I's Swedish Quake II player, in an international exhibition match.



Registration for the Spring '99 Season is Still Open! Go to the PGL web































# Go Get It Online

 or the best in gaming, turn to the experts at GameSpot and CGW Online. You'll find a
 wealth of news, reviews, and previews, as well as cool demos and hard-core strategies for the hottest games. You'll also find excellent technical advice and game-based hardware reviews from technical ouru Loyd Case. Don't waste time or hard-earned cash-when you need













### Reviews

This month, we're bringing you tons of reviews of some of the hottest holiday releases, including: HERETIC II, POPULOUS: THE BEGINNING, Kous's Oversy Tor Mark on Frenuty, NRA Live 99, and others Because so many games come out during the months of December and January, our team is working overtime to bring you the most comprehensive collection of reviews you can find anywhere.

### Features

In our features department, we've got our annual Holiday Buyer's Guide, which should complement Computer Gaming World's guide nicely. For our top five picks in each genre, as well as the best hardware, children's titles, and stocking stuffers, check out the GameSpot Holiday Buyer's Guide

Another great feature is our inside look at LucasArts and their three too designers: Larry Holland, Tim Schaefer, and Hall Barwood. We've also not leterviews with the Dunio II design team and Brian Reynolds. the designer of Sip MEIER'S ALPHA CENTAURS.

### Previews Upcoming previews on GameSpot include Relic's Howeworks, a 3D space

strategy name that promises a revolutionary engine and some innovative namenlay. We interview Howaveauth creator. Alex Garden, and preview the game he once dubbed, "Spacketti Ball" for his vision of wild, 360-degree combat with tendrils of missiles. Jaser fire, and churning debris.

### Videogames.com

Although you are reading a computer game magazine, a big group of you actually play console games. For the latest news on PlayStation, Nintendo 64. and Sega's Dreamcast, visit videogames.com. You'll find the hottest reviews. previews, and video pame features.



# that CGW has told you what games to

let Game Spot show you how to beat thorough walkthroughs and strategy guides ess. We've not all the secrets, cheats, es, and multiplayer tips. You'll find the ng guides, and more, at GameGuides.com. Age of Empires: The Rise of Rome Grim Fandango Half-Life

StarCraft: Brood Wars

Heretic II • Populous: The Beginning • King's Quest: The Mask of Eternity • NBA Live 99 Holiday Buyer's Guide . Inside look at LucasArts . Relic's Homeworks Creator, Alex Garden





LATEST NEWS FROM THE COMPUTER GAMING WORLD Edited by ken\_brown@zd.com

# I On the Storm

### Latest Departures At Ion Storm Raise More Questions

The river of former Ion Storm employees continues to rise, Austor dozen development people resigned in November, raising the total number of ion deserters to about 60 The departures renewed speculation of does divisions within the 54th floor perthouse offices of ion's Dallas headquarters Ion icon John Romero scuight to quell nursors by posting a plan file saying that the former employees had correlated their role, and he thanked them for their correlations for CEO Took! Porter responded to numerous questions and altegations in an internal memo and in an online interview on GameSost.

As expected, the ion founders and former employees ofter different reasons behind all the departures. The most recent departures—eight members of the DARGRAWA and ANACHRONOX teams resigned to form their awn development start-up (see related story on this page). Commine Yu, previously director of advanced technology at Ion Storm, resigned to join 3D Realins as the developer's lead technology programmet.

Most of the other former lan members refused to comment on the record, but some spoke on the condition of appropriate they maintain that the two bispers powers so many have left are the delaws in shipping DAKKEANA and a rather strong dislike of CEO Todd Porter

Roman, lon's chairman, brushes off the criticism as par for the course in such a high-profile development startup. He says, "When you stiff up with a large number of employees at the formation of a company those employees feel as though they have some kind of ownership state in the company and should have the power to make company decisions. That is,

not the case and over time, when the company changed, they didn't change and that in turn exhittered them. Say employees that we blood a year or so after the farmation of the company." Bossero continues, "are very much like ormal employees who don't feel that they own the company."

were that lon is so closely tied with Eidos interactive, and that Eidos has invented tens of millions of dollars into the company, both gamers and industry types are watching these developments closely. CGW feels that there is much more to this story, and we are working on bringing you a closer look into the company, its pecule, and the reasons behind the turnoi in upcoming issues, Stay tuned! -Ken Brown



"Any employees that we hired a vear or so after the formation of the company are ... like normal employees.

— John Romero

# KISS Off

t didn't take long for the latest group of lon refugees to make their intentions known. They've signed a deal with the Gathering of Developers (G.O.D.) to create a game based on Todd McFarlane's KISS: Psycho Circus comics and action figures series. The new group. Elder Entertainment, comprised of designers, artists, and programmers formerly of Ion Storm, will develop the 3D action game blending McFarlane's KISS uni-

verse with the likeness of the legendary KISS members and their music. The group had evidently been working on the project, because they even had a nifty Gene Simmons quote ready to go: "Our shows are a sensory ambush-filled

with hard-core rock and roll, cutting-edge technology, awesome effects, and in-Latest Ion Emigrants Develop New KISS

your-face action," said the leather-clad KISS vocalist and bassist. "We are working with Elder to convey that same raw electric excitement in this game," G.O.D. high priest Mike Wilson, speaking far less tongue-in-cheek said. "I have wanted to do a KISS game for years. The opportunity to be working with

great creative talent and KISS was just too good to be true. Gene and the rest of the band are truly psyched about the possibilities for this game." -Ken Brown

Game for G.O.D.

### Hammer and Tongs Digital Anvil Finally Reveals The Fruits of Its Labor

o call Digital Arivil secretive is like describing Jim Carrey as "slightly animated." Formed in April 1996, by WING COMMANDER impresario Chris Roberts, Digital Anvil has been toiling away for close to two years without leaking so much as a syllable describing its projects. After lining up a prestigious lineup including Roberts' brother Enn (PRIVATEER, PRIVATEER II; THE DARKENDACO and Tony Zurover (the CRUSADER series). Digital Anvil has been content to work quietly and bide its time. Until now. After finally deciding to lift the Cone of Silence, Digital Anvil revealed its 1999 Injeup to game journalists, and we've got to say we like what

The first title to hit shelves will probably be CONQUEST: FRONTIER WARS, A spacefaring real-time strategy game, CONQUEST will likely draw comparisons to HOMEWORLD. While both games may share some surface similarities, CONQUEST is closer to STARCRAFT than



HOMEWORLD, Detailing an intergalactic struggle between four distinct races, CONQUEST will feature a ventable armada of ship types, all modeled in 3D and sporting all the nifty eye candy gamers have come to expect from hardware-accelerated games Digital Arryll is promising that each race will have unique unit sets, thus



GETTING BURGY WITH IT Swarms of Mantis fighters take down a mostive Terran dreadnment in CONQUEST: FRONTIER WARS

creating an enticing mix of strategic options. Additionally, every unit will sport an individual special attack, adding even more depth CONQUEST promises to be an epic game, with gamers slugging it across up to 16 separate star systems at a time, moving their fleets through a network of jump gates. In order to allow players to battle in separate sectors simultaneously. Digital Anyil is working on Al



# **BUILDING BABYLON 5**

Series Creator Describes New Combat Sim

Michael Stracyzrski, the creator of Babylon S (85) and the fol low-on series Crusade, has been closely involved with the de ■ of Sierra FX's BABYLON S SPACE COMBAT SIMULATOR, Stracty

took a few mittutes to answer some questions about the game CGW What specific aspects of the BABYLON S SPACE COMBAT AATOR have you been actively involved with? Was it mostly story

estions, or did you actually write sections of the game's IMS I came up with the basic storyline, which goes back and forth in ne, when I hit the point where I thought the orig

ed by Sierra got bogged down and overwrought and ended og nothing to do with the *BS* storyline. They were quick to a ted about it, as it a e new storyline and were very exc to do both a strategic and a storyline-based game, which is ation and hard to acco slish, After I gave them the I n and hard to accomplish. After I gave them the sty Marx and the others began the process of e this into a full scenario, sending me updates every couple of days a they added new segments

nderstand that the game will take place between BS an he. Will the story actually be part of the series "canon? It's not so much canon as extrag olations on what could happen if certain key events in the 85 universe had not happened, or had happened differently. It puts the player in canonical etc ari War, the Earth civil war, others-and sees act one person's actions can have on a much larger scenario. ited involvement with the BS fan base PCs. What have been the best-and worst-aspects of that

The best has been the sense of real community that has arisen d the show; the worst has been the Net stalkers who come on time to time. The psychotic minority tends to screw gs up for the majority on

CGW Do you ever find time in your schedule to play computer games, and if so, what have some of your favorites been? IS It's hard to find the time, but I try to play when I can. MYST (old id new), the MONTY PYTHON game/CD, WING COMMANDER (all of n), DOOM, others.

For more on the BABYLON S SPACE COMBAT SMULLATOR, see page 68. Continued on Page 44



operated fleet commanders that will competently direct your forces when you're bissy elsewhere. Like most of Digital Anxil's titles, CONQUEST should be done by Q3 '93. Next up is LDOSE CANNON, an action/adventure game focused on vehicular.

combat. In yet another near-future world gone terrility wrong, games will play a bounty funiter fighting for that most American of goale—cond, hand cash. While a boryties will unable through a set scries of missions, games will have the opportunity to raise money to upgrade and repair their cars by apprehending bank robbes and the life in between the primary missions. Lange, outdoor fortnesses terminy with bed only will force players to store. Lange and one of terrisess terminy with bed only will force players to the conditions of the con abandon their wheels and go in on foot, the better to stealthily eliminate the opposition. With a number of auto contact tilles on the not-too-distant horizon, LOOSE CANNON is looking to distinguish itself with its more realistic game world and a variety of mission goals including hostage rescues, escort duty, and kill 'em all rampages.

STARLANCER marks Digital Anwil's return to its space combat roots. As part of a dividen-comprised military unit 100 years in the future, gamers will pilot space fighters as part of a NATO-type force struggling



SPACEBRAWLS STARLANCER'S muscufar game engine should deliver space combat checkful of action.

to recover after a cripping, Feed Harboe-Bie Incident. Grephicisty, STARANCH should push the envelope with Felfitter elections, capital steps with distinct moving parts, and a super-last game engine Gone and the Samming Hollywood action of Hollywood Action of Harboo COMMANDER games: Interest, the story will unfold through animated characters who will respond to the player's success or fafther. STARANCH in a planning on supporting to be capital players in multiplaying games.

and should be ready by late 1999. Biglish Anvil is keeping a cight file on its fourth title, PRIESLANCE, which is Chrin Roberts' personal propect. With all Digital Anvil was willing to show were some early but cool) concept secretice, the embition behind the game is reasolated. Designed to be measurely militarylate, VIESLANCE is abouting to support 100 players at a time in a pophically rich game work where some elseys will sport up to 10,000 polygons.

Start saving now for the handware you'll need.

With its shroud of secrecy finally lifted, Digital
Analisearms poised to make quite an impact in the
coming year. Look for more on these titles in upcoming issuer. —Robert Coffee

# PLAYER STATS



25%	20%
13%	189
12%	5%
7%	4%
3%	9%
.5%	13%
	25% 15% 12% 7% 3%

lige of Empires II Ensorbiolistanoph

Q0 95 hell the 98 Serv Spots DES OF MAN IS NOT

ction/strategy hybrids came of age in 1998. but the undisputed Lord King of this burgeoning genre, BATTLEZONE, never got the widespread recognition it richly deserved. That should change when the seguel, the tentatively (and oh so meatively) titled BATTLEZONE 2 is released late this year.

Fans of the original will be harry to learn that while the design team has left Activision. they've staved moether as Pandemic Studies and are crafting a pame that will be hard to ignore. While the brilliant game interface and core Al is being carried over from the first game, the graphic engine has been scrapped in favor of a new one that delivers even more ravishing visuals and lets the designers create even more intricate worlds. This, coupled with moving the game's story out of Earth's solar system. will allow Pandemic to create networks of tunnels, deep, moving rivers, lush alien foliage, and terrain features for more dramatic than the towering mountain ranges of BATTLEZONE, Garners can expect the action to move into these new areas, with rocketslinging fireflights occurring in subterranean coverns and underwater.

While the core gameplay will remain the same. Pandemic is responding to fars' requests for "more action and more strategy." The action side of the equation will be addressed with the creation of several new units, but the biggest difference may be in the strategic game; you'll be encouraged to build more, with base



## Back in the Zone Sattlezone Sequel Is Impressive

development becoming a larger port of the game.

In order to broaden the game's appeal, Pandemic is designing the game so that strategists lacking the twitch reflexes necessary to pilot a bountank will be able to issue commands and play the name without ever necsonally firing a laser, Likewise, rocket jockeys who'd rather mix it up

facet of the game. (ike the single player experience, a slew of new options will be available, including co-operative play against computer-controlled opponents, Capture the Flag, and more, An instant action mode will let solo

players have their multiplayer skills. Look to CGW for a full, indepth preview on BATTLEZONE 2 as the game develops.

-Robert Coffey



themselves New vehicles and lush new BATTLEZONE's multiplayer game worlds that include foliage, rivers. was one of its best features and and tunnels, should enhance the Pandemic is listering closely to its rabid fan base in improving that



## LUFTWAFFE COMMANDER

takes you back to a time when the deadly Me-109 ruled the sky, Tervariza Alled forces as you fly missions in 5 combat areas with avar 50,000 square miles of tervain. Choose from 2 flight modes — 1000 Choss chollenges less experienced pilots while Notor's Choose provides a Will his combat simulation of uncompromising accuracy.



# MESSERSCHMITTS

- Over 10 different flyable eineraft with detailed interiors and instrument panels.
- 50 unique single player missions.
- 20 unique multiplayer missions.
   Custom Combet option allows for unlimited air combet separates.
- Modem and serial play for 2 players, network play for up to 10 players, online play for up to 10 players. Both flight modes available for



 Dier 63 different 3-0 aberaft axiarier no fals alb historiesh markinga, gulat relaturas and flight sharastavibiles.

 Ujumile sirezaili damusi miciala.



 Unlimited axiomal stead and life different informal visits of each flyable absorbit.





GUISSO CARLOUS DE MINISTER NO ART INSIDE INCOME THE SOCIAL POR A GARANTE DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE TODO DE L'ADRICUMENT CE STROME DE CONTRACTOR DE CON



LUFTWAFFE COMMANDER" gives you the controls of the mighty Messerschmitt Me-189, the experimental Me-282 jet — and over 8 other flyable, fightable circuraft











# Gulp!

### Cendant Software Sold to French Media Giant for \$800-985 Million

endant Corporation has agreed to sell Condant Softwere and its subsidiaries to French publishing condomerate Havas for as much as \$985 million. Haves is the world's fifth-largest media company with more than 22,000 employees. Havas owns Europe's too advertising agency the world's largest

drastically after the announcement, and Condant has been selling assets ever since to help reduce its debt Under the deal Wyendi will pay an initial \$800 million in cash, with a subsequent \$185 million in contingent payments to be made over the next year, depending on the

performance of Cendant Software. Since Havas has no presence in the United

States, Sierra's Grenewetzki said that he did not expect lavoffs or any changes in its management, operations, and products. Haves won't change Sterra and Blizzard's brand names --- Kan Renwa







pay-TV operator (Canal+), as well as Europe's largest commercial TV and radio venture. Havas is, in turn, a division of Vivenci SA. France's largest water utility. Vivendi has over 200,000 employees and is involved in telecommunications, transport, and the media. The company also owns 50 percent of AOL France Cendant Software is also a hydra-headed entity

One of the largest publishers of entertairment software, the group's holdings include Sierra Online, Blizzard, Davidson & Associates, and Knowledge Adventure. Sierra is a large and wellrespected computer game company, with numerous game titles and properties across practically every genre. Sierra president David Grenewetzki expressed relief about the appouncement saving "This clears the cloud from over our break. We're really happy because we have an incredible partner in our new parent. The Hayas folks played our games and knew our stuff. So it's really next

when the 'suits' are as into games as you are." The cloud Grenewetzki referred to is the controversy that has surrounded Cendant since the parent corporation revealed massive accounting fraud in 1998. Cendant had posted \$500 million in phony revenue from 1995-97, in addition to at least \$200 million in accounting errors over a three-year period. The companies value fell

# PC Data Best-sellers

# will you be ready to deathmatch with John Romero?

See if you have got what it takes to go head to head with the Creator of Daikatana himself. On FEBRUARY 12TH, go to mplayer.com and join the Daikatana Deathmatch Tournament, All you need to do is get online and bring your endurance and smarts. For the Daikatana Deathmatch Tournament will require more strength, stealth, and strategy than you can possibly imagine.

The DAIKATANA DEATHMATCH TOURNAMENT will run exclusively on mplayer.com from February 12th to March 12th with each week producing ONE finalist. Those four finalists will be flown to the Dallas offices of ION Storm for the Daikatana launch event. There, the chosen four will see if they have what it takes to go head to head and beat JOHN ROMERO at his own game.

In addition, these four finalists will not go home empty handed. The Daikatana Deathmatch sponsors have put some serious hard-

chosen few...And one lucky participant will walk away with a reallife size replica of the Daikatana sword.

For more detailed information regarding all the rules, regulations, prizes and how to play, go visit the official Daikatana Deathmatch

ware, software and just plain old fun stuff on the table for the

www.daikatana.com www.mplayer.com www.eidosinteractive.com

This competition is proudly sponsored by:





















# FROM THE CREATORS OF SYSTEM



# SHOCK" AND ULTIMA" UNDERWORLD"

"Thief blazes a new trail."-Computer Games Strategy Plus

"Thief may very well define a new standard for interaction and immersion." - PG Gamer



"The atmosphere and gameplay make this one stand alone."

12 Huge Missions Advanced Enemies

Stealthy Gameplay first person action



our Arsenal Includes:



PROJECT



# straightening, mind-melting action. (Ready for level 2?)



# Your mother always said



<sup>&</sup>quot;Gangsters is great.We're itching to get our hands on it!"— PC Gamer







<sup>&</sup>quot;Gangsters is a novel spin on a tried-and-true gaming formula"— Gamecenter.com

# you'd be famous someday.

O you didn't make it onto the silver Screen. Still, your picture is posted everywhere giving you one of the most recognized faces in the nation (especially amongst those frequenting post offices).

Frame it anyway you like. The bottom line is that you are THE MAN, the don, the boss. An entire city lays at your beck and call, 5,000 citizens await your next command. It's your chance to be a big fish in a big pond. Start swimmin'.



- In-depth strategic planning and real-time tactical gameplay
- Control every aspect of a 1930's-era mob "family"
- Control a huge virtual world with over 5,000 citizens and 400 gangsters
- Multiplayer support for up to four players via LAN, Internet, and EidosGames via mplayer.com









# THE PRESS IS RAVING THE DIRTY

"With Commandos, Pyro is injecting new-life blood into the real-time strategy genre with a game that will have players

on the edge of their seats." -Imagine Games Network



"Commandos is a great game

"Slick, Different, and Innovativ -Computer Gaming World

"A genuinely

of tactics, planning, and precision."

-Gamespot



# ABOUT HALF DOZEN!



# COMMANDOS









# Ultima Online Lawsuit Update

Court Refuses to Certify Plaintiffs as "Class"



the November issue of CGW, we reported that a lawsuit has been filed by several disgruntied gamers against Electronic Arts and Origin Systems over ULTIMA ONUNE. At issue is whether EA.

and Origin should pay damages to the gamers for releasing a game plagued by alleged technical problems, such as lag and server crashes. and deceptive packaging, such as a failure to mention monthly fees and adequate system requirements. One goal of the gamers (the plaintiffs) has been to have the court certific them as a "class." Such a rulino would mean

Old Origin discount UD: THE SECOND AGE to purchasers of the original game because of the suit?

that just about everyone who has ever played ULTIMA ONUNE could join the lawsuit as an "apprieved plaintiff" and seek damages from EA and Origin without having to personally appear in court and give testimony. After weighing the merits of the case, the Superior Court of California for San Diego County ruled in favor of FA and Origin and against class certification, Judge Judith

McConnel held that the plaintill's failed to show "common questions of law and fact predominate in this action." Specifically, the court believed that all of the named plaintiffs were affected differently, if at all, by the alleged technical problems and misrepresentations on the box. Since each plaintiff's experience with the game was unique, all of the plaintiffs could not be viewed as a single 'class" with common theories of liability and damages. Therefore, according to the court, the individual testimony of each plaintiff, including the unnamed thousands of ULTIMA ONUNE players should they wish to join the suit, is going to be necessary to establish (1) if EA and Origin are liable to each plaintiff and (2) what the damages to each plaintiff should be, if any, Does this mean the sull is over? Not at all. The plaintiffs can appeal Judge McConnel's reling to a higher court. If the appellate court reverses the lower court's decision on class certification. EA and Origin could still face a class action lawsuit from the more than 200,000 gamers. Moreover, the judge's ruling has

absolutely no effect on the plaintiff's individual claims against EA and Origin. Such claims are set to go to trial on February 11, 1999 The ULTIMA ONUNE add-on THE SECOND AGE is now out at a discount price of \$6.99 to purchasers of the original, which prompts the question: If the ULTIMA ONLINE lawsuit had not been filed, would EA and Origin still by giving UO. THE SECOND AGE away for next to nothing? Probably not. - Michael Harmash

# Plastic Fantastic

Army Men II Gets Re-Equipped

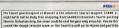
PMY MEN was a great game concept. It tapped into gamers' nostalgia for blowing up the green plastic men of our youths. But it suffered from an awkward interface and complicated, "realistic" environments far too grandfose for simple plastic figures. ARMY MEN II, soon to be released by 3DO, fixes both problems and plunks our fearless friends where they oughtta be: in and around the house. The interface is entirely new, and you can control Sarge or the other

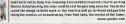
troopers by clicking on them or dragging a square around them as in COMMAND & CONQUER, Also as in C&C, each have their own health bar. In sinale player you'll fight 28 missions across 12 maps including kitchen counters-being careful to avoid stove burners-bedrooms, hobby tables, yards, and other settings. Watch out for roaches and a roque commander who's strapping firecrackers to other army men and sending them on kamikaze missions. Look for ARMY MEN II to invade stores in March.





Maikiki





YOOT Tower [YOU SUILD IT. YOU DEAL WITH IT.

## YOUR BEST SOURCE FOR THE HOTTEST GAMES IN DEVELOPMENT

### by Denny Atkin

orget slingshots. This David is packing a bazooka. When the Golfath vou're taking on is Microsoft's FUGIET SIMULATOR, one of the longest- and best-selling computer games of all time, you need all the weaponry you can pack. And

with FLYI, developer Terminal

Reality, Inc. (TRO looks to be armed to the teeth. FLIGHT SIMULATOR in one version or another has consistently been near the ton of the sales charts for well over 15 years. Other unstacts have tried to knock it off its throne, but have failed for one reason or another Looking Glass' FLIGHT UNUMITED II is a great program in many respects, but its small thring area meant only San Francisco-area residents could use it to fly from their home airports. Gera's Pan Plint '98 was a

GENRE: Sinulation RELEASE DATE: 02 '99 DEVELOPER: Yerraral Realty, inc PUBLISHER: Catarion of Developer

# Fly!

## Terminal Reality Challenges Microsoft (and Sierra, and Looking Glass)

to a Dogfight

buppy mess with retro graphics that did sell a number of copies. but only after it was reduced to a bargain-bin price. PRO PLOT '99 is dramatically better, but still has limited 3D support and gaping

hales in its flight modeling The binnest problem with the current crop of civilian sims-FUGHT SIMULATOR '98 includedis that each one only excels in a limited area of simulating the flight experience. FLYI is aiming to make its mark on sim pilots by not skimping in any area. It's

not going to attempt to do everything in version 1.0. of course, Passenger iets for instance will remain the exclusive realm of FLIGHT Sea '96's rather inhits modeled 232-at least for now. But what it's point to do FIYI is amiro

### to do very well. Preflight

Hopping into the cockelt of the alpha version's Cessna 172R, I was pleased to find that the instrument panel looked just like the real thing. Where other sims often rearrance or compress instruments for playabillty reasons-so that you can









time-fix! attempts to create an exact replica of the real plane's cocknit. This necessitates scrolling around the screen to see the entire instrument panel, but it's worth the tradeoff. If you're a real pilot-or you hope to be someday-there's no looking around to see if a particular switch is modeled on the panel, and where the designers put it. And the instrument detail is unprecedented. In the alpha version I've been flying, for instance, the NAV/COM instruments aren't yet fully documented, but the developers suggest checking out the actual Bendix/King radio documentation for the real plane if you want to use some of the instruments'

The cockpit simulation doesn't stop with the main panel. Floor and-where appropriate-carrhead panels are modeled as well. Virtually every switch, dial, and control in the real plane is accessible by clicking on it. So instead of rooting around your desk for the keycard when you can't remember the key to adjust trim, you simply toggle the view to the floor panel and click on the actual trim wheel to adjust it. Doing it this way is also

better for learning how the procedures are handled in the real plane. While most of the switches in the cocknit are functional. FIVI will also accommodate the beginning pilot or casual sightseer. For instance, while you can start up the engine by going through the

te digital elevation meps nd scenery textures give the perience an euthentic feel.



proper checklist procedure, you can also bypass the details and just hit "E" to perform all the nec-

essary steps. This type of optional assistance should come into play throughout the sim. For Instance, FDT has fully interactive air traffic control. If you activate the radio, a menu will popup with up to 10 appropriate messages for your current situation. But if you don't have your radio

properly tuned, a requester will

you want to communicate with

appear asking which service

recontly talked to Richard Hervey, Senior Softwere Engineer on FLY1, about some of the underphinings of the project. The sum is being designed with a strong foundation for future repression. For instruce, Hervey talks about how, instead of herd-coding all the characteristics of a particular piene in the sim, TRI ectuelly built a simulation of the guts of an eisplane. "We don't have to 'fudge' the sim to fit an electeft," Hervey says. "The sim is unaware that e Cessae 1728 is being flower; the

This deteil goes fer deeper then pure performance numbers, Harvey says. "Honnstly, with FLYI, wa spraid as much time on elec-

rndio will 'turn on.' It allows our systems to just work—I don't have to hard-code some huge dependency of 'if this switch, that

(clearance delivery ground, tower, departure, approach, or center). find the appropriate frequency. auto-tune the radio, and then present the menu of message choices. A wide variety of realism settings let you tailor the

> the sim for beginners or licensed pliots alike. First Solo The early version of FEY! that I

complexity of

tested had fairly complete flight models for the Cessna 172R and the twin-engined Piper Navaio Chieftain, There

was also an early version of the turbocharged single-engined Piper Malibu Mirage. The final game will also feature the Raytheon/Beechcraft King Air 8200, a twin turboprop, and the Cessna Citation X business let. The planes look very good, with real-time light-source shading and moving control surfaces. Even at this early stage, the flight modeling is very impressive. Flying the Cessna as I would in real life, its responses and performance seemed on the

aircraft was assembled from components, with its unique performance nttributes specified from disk. Tuning involves unlidating parformence values in the nircraft files. If we put in original manufacturer numbers and don't get the expected results, we look isto our sim for a potential problem, because the meth should be totally unewere of the simulated object involved." trioni systems and compounts as we have to tuning numbers," he nuplains, "One of the erest things is how our electrical hus and systems are defined. A neet exemple is n power switch for a redio. We don't not unity code something like: If user turns power switch, mello is on," instend, we define the entire electrical bus ned fuse inyout, So, if you turn on the power switch on a radio, the radio may or may not turn on. The switch detects the state change, and queries its local bus for power, The local bus may query a fush. A fuse may quary n moster bus. The master bus may quary a bettery. When all is said and done, the power source for the

more exoteric functions.

knob, this key, ellow this," As complicated as this sounds, in the long run it should make expending the sim ensier. Hervey expinies, "Our wiring system tracks it's own dependencies, so we can wim very complex systems in a very short amount of time, with no code necessary. It follows our entire draign philosophy---if you design the systems right, end do the meth and sim right, it just works." No fudging necrosory.



### Microsoft



How far are you willing to go to keep your men alive? There are no nule books. No how-to guides. You've got to use your head, improvise, and change your tables at a moment's notion. Are you up for the challenge?



1941 to 1945. Four graphing years of war. Four dramstically different seasons. From mind-numbingly cold whaters to impossible-to-budge muddy springs. Every weather change comes with a new set of problems. You won't make it if you aren't cereared.



Day one. You're a low-ranking commander. But keep your troops from fleeing or getting killed and you'll soon find yourself advancing in rank and commanding more units. As the front-line commander, all eyes are on you. Ask your solders to do something sifty and you can expect a motiny. But with every battle you win, their morale gets better. Bringing a whole new meaning to survival of the fittest.



As the war drags on, the technology gets better. You can choose between rocket artillery, off-map artillery, flamothrowers and 80 different vehicles, to name just a few. Not to mention over 300 squad types and 60 different kinds of soldiers.



Take your troops from the open field fundra to Berlin. Maps are bigger and based on actual serial photographs with amazingly accurate elevation detail. The maps may be historic, but the outcome of the wor is unwritten. Will history repeat itself?





mark. Pushing into more suicidal regimes. I was able to loop, spin, and even snaproll the plane. Control response felt natural, nelther overly sensitive nor

overly stable Landing gear strut movement is modeled as well. This not only provides nice, subtle movements as you brake on the ground, but also adds to the realism of landing, where bouncing off the runway can be a real problem for beginning pilots

Fix will sport over 9,500 airports worldwide at which you can test those landing skills. There will be five scenery areas modeled in great detail, using satellite imagery, including San Francisco, Chicago, Dallas/Ft. Worth, Los Angeles, and one other. Around airports and downtown areas, the scenery looks great-of similar quality to that of FUGHT UNUMITED II. Other regions of the world will have accurate terrain elevation and texturing, but the scenery will be generic. So while your hometown may not be modeled, its airport will be. And you won't be able to sightsee around Berne, Switzerland, but the Alos will be right where you expect them.

TRI is making the scenery (as well as aircraft and instrument nanel) formats available to thirdparty developers, however, so expect more cities soon after the sim is released. A third-party European scenery CD is already in G CENTRAL A Place trins outside of LA

### Cross-Country

frequencies.

Of course, there will be a full set of navaids for instrument navigation. One innovative feature will help when flying visual. Pressing the forward slash key (/) will change the cursor to an aiming sight. Point at the ground and you'll get a pop-up with the distance to that site in nautical miles. Point at a landmark or airport and you'll also get the object's name, and, in the case of airports, ATC or runway localizer

IFR (Instrument Flight Rules) pilots will love FCr7's online maps. Press a key and a sectional chart for the current flight region, showing your current position and heading relative to the chart, will pop up. Sectional maps will be included for the entire U.S.—no more dicaina through your desk looking for a paper map.

Cussou 172R Skythis GET LOADED You'll be able to specify your plane's cargo loadout and fuel levels before taking off. al indicators show you how your load affects your plane's center of gra When flying IFR, the sim can poll an Internet database

and import

real-time

the National

version I tested, but already had

A sophisticated flight planner

will let you plot out cross-country

flights, and it can automatically

uations such as landing at

Catalina Island.

generate the route for you. There

will also be a variety of preset sit-

You won't be alone in the skies.

either. Both peneral aviation and

airliner traffic will be modeled.

giving you a diance to practice

entering a crowded pattern. The

planes calling for clearance, and

you can even follow them from

takeoff to their final destination.

(And wes Kamikaze Box collisions

will be implemented.) In addition.

the Flight Party multiplayer mode

others over the Internet. The sim's

will let you fly with up to seven

"Live Wike" technology will let

for each plane. You'll hear Al

sim will generate real flight plans

volume and translucency

weather from

Oceanic and ou to the con Atmospheric Administration, Everything from scattered clouds to thunderstorms will be modeled. The clouds

you communicate with other players via voice. were still a work in progress in the

## Take Off, Eh?

TRI knows that it's going to have to make a good impression with the first release of Ftyl if it's going to be a worthy competitor for the FUGHT SIM series. To that effect, when it became apparent that the company couldn't get all the features it wanted into the sim by Christmas, 1998, the developers decided to hold the product until the second quarter of '99

and do it right From what we've seen so far, Microsoft's upcoming PUGNT SIMULATOR 2000 is in for some stiff competition. ISSET

A remenade uniformsed pilot who plans to finally start working on his certificate this year. Denny Atkin nevertheless has stick time in a Mooney 231, Cessna 172 and 201, Beechcraft Bonanza and T-34A Mentor, and a F-15D Eagle.

the works.



Don't just sit there! Grab your loystick and engage in white-knuckled 3D combat action and tactics that will leave you quivering with excitement. Wargasm offers unparalleled military hardware and personnel for your combat pleasure. Or pain. Tanks, helicopters, bombers, infantry... it's all here and then some. Play alone or dish it out online. But if you come packin', you'd better be ready for action.

Come and get it at local Electronics Boutiques, Babbages and other major retailers.







WARGASM

WWW.WARGASM.NET



3D0www.3do.com

Awnging Angel. Because you're barrle between good and evil, with 3D first-person action o intense it transforms "fire nto "fire and reload". Grab incounter bizarre characters rom all over creation. Turn our high-powered weapons worlds and futuristic cities. enemies to salt, boil their blood, then unleash a flesheating plague. Get Requiem nd blast through nether-"nd brimstone"

immerses you in the ultimate Requiem. Awnging Angel

a messenger of God. With a ugh-caliber message. ロ ロ ス 山 ス く





by Denny Atkin

abylon 5 ushered in a new age of television science fiction, with state-of-the-art computer-generated special effects, plots based more on intrigue than on technobabble, unprecedented attention to detail and continuity, and storylines that often aren't what they seem on the surface. Those same characteristics make Sierra FX's BABYLON 5 SPACE COMBAT SIMULATOR (B5 SCS) one of the most promising license-based computer games we've seen.

# **Babylon 5 Space Combat** Simulator The Last, Best Hope for a Great Licensed Computer Game

designed CONQUEST OF CAMELOT

and CONQUEST OF THE LONGBOW

who directed the photography for

approval on concepts, scripts, and

are elements added to the AS uni-

verse by the game. While the story

is primarily the creation of

Straczynski added a number

of specific negratives to the

storyline. 85 fans who know

that seemingly insignificant

comments in Season 2 can

have major implications in

Season 5 will likely go over

this game's storyline with a

Alas horause the final

fine-tooth comb.

Marx and Littlejohn,

GAERIEL KNIGHT II. Straczynski had

for Sierra; and Bandy Littlejohn.

**Canon Fire** With the excretion of a couple of Ster Wars-based titles, it's been rare to find a top-quality title based on a tolerision or mode title. First concurred that BS SCS will be a less than stellar title can take solace in knowing that The Great Maker, 85 producer J. Michael Straczynski, is guiding the game design. In fact, the game will fill in the gap between Babylon 5, which aired its final ecisode last November, and the sequel series Crassale which begins airing on TNT this spring B5 SCS is being codesigned by

Christy Marx, who wrote a firstseason episode of Babylon 5 and Babylon 5 Space

RELEASE DATE: 02 39 **QEVELOPER: Yours de Français rura** PUBLISHER: Service FX

bonisade of AS hado't aired when we visited developes Yosemite Entertainment in November, most of the details on the storvline were still under wraps. We

do know that it will focus on a war with the Dilgar, and apparently, time travel will play a part in the story as well. While there will be viden seguences filmed on the show's sets, the real artise will take place in a Starfury fighter.

Starfury Unleashed

As you can cuess, this first Bebrion 5 game focuses on space combat. (The follow-up title will be an adventure, based on the UNREAL engine.) Most of the game will be seen from the certain of a Starfury fighter.





UT OF WATER The Minbari S ass cruiser model contains nearly 3,000

85 is notable as one of the first sci-fi shows in which the spaceships don't fly like fighter jets. Fars knew they were in for a different kind of show when a Starfury being pursued by an alien ship simply stopped thrusting, rotated on its axis, and fired head-on at the enemy-all without changing its flight path

sy craft can sneak up

The same physics come into play here. I took BS SCS's Starfury for a soin and found a flight model that will please INDEPENDENCE WAR and WING COMMANDER fans alike In normal mode, your flight path is coupled to your control input, so giving the stick a hard left or right push will initiate a fightedfor turn. But a simple press of a povetick button uncouples the thrusters and allows you to use the ship's

maneuvering thrusters to spin your ship without aftering its direction

> and the results are specnumber of polycons must be reduced for IE FIRE A Brakiri Cruiser heads High-quality texture

of flight. This is handy not only when a bad our is on your tail, but also when attacking capital ships. Aim your Starfury so that it flies down the side of the enemy ship. then turn your ship's nose toward the enemy and unload a barrage of

fire all the way down the length of the hull.

Thanks to the polygon-accurate collision modeling, you can make these inertial strafing runs, get right up against the surface of the ships, or even pass through gaps and openings. You'll have to be careful not to be distracted by the majesty of some of the craft you're attacking, however. The crew at Yosemite Entertainment is employing the actual Lightwave 30 models used by Netter Digital to create

special effects

tacular. Even though the real-time renderingthe original Minbari Cruiser has 45,000 polynons, while in the name it has closer to 1.500the ships still look great. maps make up for much of the loss of detail.

sequences for the series.

If you've seen a ship in the series, chances are it will appear here RS SCS will even include some ships designed for the show but never shown, such as a Namshin built for the "In the Reginning\* TV movie Models being created specifically for the game by Yosemite are being craft-

ed with TV-quality detail and sent to Netter Digital, making it possible that they could make an appearanne in Croxade **Universe Today** Space isn't likely to

feel empty here. Instead, you can expect some battles of an unprecedented epic scale. So far, the team has tested the engine with up to 350 ships fighting it out. Scalable detail will allow garners who own a Pentium 200 with an original Voodoo card to see such beddes while maintaining

a decent frame-rate. Of course, if you have a P2/450 with a RIVA TNT card, battles at 1600x1200 resolution may look better than on the TV show

While details of the game's plot are still being guarded. we do know that the RS universe is being modeled in full 3D, complete with a network of jump-gates to use to pass between systems, And, of course, the mysterious red, murky

reaches of hyperspace will be modeled. You won't want to stray too far from jumpgate beacons when traveling through hyperspace or you could get lost-or even worse, found.

The universe here is free-form. If you're given a mission to escort an Earth Force Omega-class destrayer you're free to go off and attack the Drazi homeworld instead. But you will have to suffer the consequences. The

nonlinear, nonbranching storyline promises replayability not usually seen in this neare

Yasemite has licensed the entire Rabyton 5 music library from comnoser Christopher Franke for the sound for the name. Using a technology called Sculptured Music, the game will draw music clies from a library of excerpts from the show's soundtrack and move seamlessly from one to another to fit the pace of the action. The demo I heard was very impressive, with the pace guickening as the battle reached its peak and lessening as the last enemy ships were mapped up.

There's plenty more in the works, including a pair of multiplayer modes. The first will allow you to deathmatch using ships from a variety of allen races, duking it out, say, Narn versus Centauri versus Vorion. The second. a more sophisticated mode, may bano tactical elements and capital ships into play Look also for a detailed 85 encyclopedia, which will contain even more into than the reference disc.

Most intricuing, though, is the development team's promise that the game's universe will feature as



series. The "good guys" and "bad guys" rosters will fluctuate, and things will not necessarily be as they seem. In a genre plagued by linear movietice compaions with little replayability that's a breath of fresh air. GGC7

Denny Atkin has seen every episode of Babylon S and has a taste for Cheesy Spoo.





### **Panzer Elite** Romancing the Panther With Psygnosis

by Jim Cobb

reviewing a game from early code is always dangerous. The designer notes promising. seductive features not vet fieshed out-or even created. The code itself suffers from inevitable hardwere conflicts. crashes, and commands that have outdistanced scant early documentation. The author must discern what is possible in the designers' proposal from the reality seen in the code. He must extrapolate the game's concepts from the gameplay seen, and he constantly walks a tightropetrying to be neither too (avorable to the final product nor unfairly critical to a work in progress. Fortunately, Psychous' PANZER BUTT (PE) has a rare mix of excitement and substance. Even though it's barely alpha, it's easy to tell that this game should be

### something special. My Aim Is True Though PE will join in the

recent seemingly endless spate of WWII tank simulators, Psychosis is GENRE: Simulation RELEASE DATE: 02:39 **DEVELOPER:** Wings Simulations **PUBLISHER: Paranosis** 

long or short compaigns within these theaters-around 50 missions/campaions in all. The designers have rectified the absence of an American campaign in PANZER. COMMANDER while keeping the simplicity of command control phsent from IPANZER '64 Some

apparently turning its tardiness

PANZER '44 and SSEs PANZER

PE attacks these areas with the

PE covers German-American

battles from 1942 to 1945 on a

platoon level. Theaters of opera-

tions include Tunisia, Sidly, Italy,

fervor of a Panzer ace.

vidual to the principle models and represent a 360-degree view of each compartment. This authenticity becomes even more dramatic in the commander's buttoned-up cupola. The view is very restricted, with slots giving no more than 30

enparent. Tank interiors are indi-

gamers will lament the absence of those vicious Russian tanks and the quaint early Western Allied vehicles. However, these deficits in breadth are compensated by depth while leaving room for sequels. This concentration of scene also may afford more historical detail

in engagements. The graphics are head and shoulders above other simulations Forests in PE are made of individual trees and bushes, which can be blown away or rolled over if your vehicle's

treads and drive train

are up to it. Similarly buildings are distinctive to regions and are indiinto an asset. Earlier games in this vidually modeled. Like genre, such as Interactive Magic's wells, buildings can be crashed into for cover COMMANDER, can be criticized in and quick getaways at terms of scope, graphics, realism. the risk of vehicle damage. Terrain and vehicle detail and capabilities. actually rolls with tank comman-

> des bouncing in the turret. The difference in terrain colors and textures makes finding a hulldown position much easier Vehicle and combat graphics

are also standouts since vehicle exteriors are modeled intricately. antitank positions. Given the importance of the graphics. Psyanasis' efforts to make the program compatible with many



Realism is the key feature of PE and is manifested in attention to detail. Each crewmember is represented and has varying qualities that affect the performance of your tank. In the campaign game, you fuel vehicles from available reserves, pick a multitude of shells from your stocknile, and upgrade units with a myriad of options such as skirts, antipircraft machine guns, and advanced armor-piercing shells, if you have a good enough record, you can exchange older vehicles for better ones. Finally, if your platoon is not performing well, you can even sack a tank's commander All of these modifications are recorded by your heipful aide, who also gives a detailed mission briefing using a well-illustrated animated

All these elements would be useless if gameplay didn't take advantage of them, but don't worry-PE does a very good job in this area. All input devices are

situation map.



percent of the total screen. Other

Enemy vehicles are not only mod-

eled well but use effective campu-

flage colors, Finally, the infantry is

visible and lones human They

dash or Investment to effective

vehicles can be seen using the

multiangled carnera function.





scheduled to be available in the final version, but mouse and keyboard controls work well already. Platoon members can be ordered about with one hot-key, while the commander can control movement through a superimposed mouse tank. Of course. hot-keys will handle tank functions at the crew positions. Tarnets are selected with a click to be fired on by either the tank's cunner, another tank, or

the entire platoons. The player can also serve the main oun using a simple boresight level of realism, a level where gravity and muzzle velocity is modeled. or an ultrarealistic mode with wind also modeled. Both bow and coaxial machine guns can be used to dispatch soft targets. Driving your vehicle seems simmechanical and battle damage, some of which can be repaired by

ple, but it requires thought. Tanks flip over when going up steep signes at a bad ancie, and emines. overheat when pushed too hard. Treads can be thrown rolling over obstacles or mines. Compasses are useless surrounded by so many tons of metal, so commanders navigate by maps and landmarks. Platoons can be ordered to a point by a click and a hot-key and get there in the usual column, line, echelon, and "see" formations. The obssics of maneuverability over the battlefield is just fascinating. The Tiger is often thought to be clurrey, yet its wider tracks made it more maneuverable than a Sherman on soft terrain. PE

models such details for all vehicles (see sidebar) Combat requires a keen eye more than good reflexes. Crewmembers may spot the enemy, but the player still must make observations without benefit of visual cues to ensure the best results. As you'd expect in a physics-based tank sim, success penerally requires that you maneuver for side and rear shots at the enemy and fire from stationary positions. In a Tiper it's tempting to simply sit there and bang away, But sooner or later, an enemy will get in a good shot at a vulnerable spot, so hull-down positions are important, When things get too hot, smoke shells and dischargers can provide cover. PE models many different kinds of

The missions are varied and include recon, assault, static defense, and "fire brigade" responses. Campaigns can be short, medium, or long in duration, and they sport the usual crew ability improvements, supply increases, and decorations for good performance. While you can call in off-board artillery, your main support comes from independent units, who seem to finht guite well. I watched a squad of my own infantry take out an enemy, which speaks well for the A). The computer coponent, even at this early stape of the code, is

the crow.

no fool. But the ultimate opponent to play is another buman, and PE nlars to support

LAN. IPX. Internet, and nullmodem play.

No Bailout Required

In the end, even if everything the designers plan to do is truly implemented, questions about PE arise. Why, for example, is there no provision for air attacks—the bane of German crews in Normandy? Why is there no ballout command. leaving doorning crews to await

their fate in a hadly disabled tank? Oddly enough, Psygnosis' laudable attempts to bandle all input devices and graphic levels may cause more technical problems

than they fur. Repardless of these doubts. both PE and the inevitable East. Front sequel hold every promise of thrilling gamers-even some of those not normally attracted to WWII tank battles 区石刀

Jim Cobb is still trying to mas-IN THE OPERATIONAL ART OF WAR He's not there yet, but his panzer pointhrush now source a finer tip.

### lardware Heaven

DAZIE ELITE models an exhaustive array of vehiDelse-Bit hall—of which you can directly control
23. While other games have more vehicles, PFdepth of detail is breathtaking and adds new dimensloss to the armor gaming experience.
The 12 German tanks influeded are PASW III, I, III,
PATHON VE, PE, II, Panther D, AG, Gin differed and II,
American tanks modeled are RSSA1. MINGMES MA
(Schomma) 24. A SCHOMM 25 Class 1-575W AS Mode. Sherman) A1, A1(76)W, A2 (late), A2(76)W; A3 Min

ACT/SWA ALFO, and Jumbo, These variants model not only different engines, armor, and gum, but also such minuflae as different compartment variations and wet boxes for amountilion storage. The detail describ stop there, along with high explosive (III) and smoke rounds, the Germans can choose from hie different compartment.

rmor-plercing (AP)

on the tank and y choose from five different Al ds and two shell type has



ity and penetration characteristics. Lest you worry that infantry is forgotten, squarery bazookas, Panzerfausts, Fanzerschrecks, AT orgotten, squads may erschrecks, AT ed by nationality and , and rifle gren me of the war). To wake the sleepy, Teller mines are sown here and there as wake-up cal

Basically, PE gives enough detail to send even veteran ayers scrambling for reference books and calculators o choose the best ordinance mix. Or, you can have a great time blowing up the countryside re a great time blowing up the countryside (and refully, a few enemy tanks) with a wide variety of



Blood was the gift. Life eternal the promise.

But every gift comes with a price.



# Warthog

The Team That Brought You the Award-Winning LONGBOW Series Is Back With the Meanest, Deadliest, and Ugliest Attack Jet Ever Built

by Denny Atkin

t has the kind of face only a mother could love. In the days when the sleek, supersonic F-15 Eagle and F-16 Falcon were coming into service, Fairchild-Republic introduced the A-10 Thunderbolt II. This hulking, subsonic jet looked more like a single-seat, jet-powered version of World War II's B-24 Liberator than an answer to the problems of the modern battlefield. With the ugliest visage this side of the A-6 Intruder and a seemingly endless string of pylons jutting from under its wings, the plane was quickly rechristened the "Warthog" by the pilots who flew her. But while it may not have been attractive, any plane that can carry twice the bomb load of a WWII B-17 Flying Fortress and

fire 65 depleted-uranium shells per second merits a certain level of respect. And what better way to pay homore to the air force's cround-concerned, however, Despite this push toward accessibility, the pounding wonder than to set loose the Austin. Texas-based branch of Origin Skunkworks to create a simulation of the plane. After all, the Skunkworks crew headed by Andy Holls and Will McBurnett had brought us Simulation of the Year

award-winners LONGSOW and LONGBOW 2. Due for release in the secand quarter of this war IANE'S A-10 WARTHOG maintains the elements that made the LONGBOW series so. good and promises even wider appeal. While the sim exhibits the exacting detail that made the LONGBOW games favorites of hardcore flight simmers, the A-10

jet is easier to fly than the Longbow helicoptes, and its weapons systems are easier to master

> First Flights in fact, much of the came's

design concentrates on making A-10 WARTHOG more accessible to new sim pilots and players still working their way up to hard-core status. Expert pilots need not be

sim still promises unrivaled cockpit, flight, and weapons modeling.

Experienced pilots and newbies alike will appreciate the way the sim brings you along to A-10 flight. The sim will offer a series of LONGBOW 2-style training missions in which an instructor pilot will guide you through the basics of A-10 flight

and weapons handling. Further the first campaign is being designed as a ramo up campaign to better familiarize you with the plane. But the campaign will involve real combet missions, not training. The mission

objectives and the threats present will let you build your skills gradually, however. rather than force you to use every available weepons system to take out your first targets

This first campaign, Quaration Restless Tiper, starts out during a Team Spirit training exercise. in South Korea. Events quickly turn the exercise into the real thing, You'll fly some 30 missions over the course of the campains, and by time you finish the campaign you should have the aircraft and its systems mastered.

Experienced sim fans will be relieved to learn that the second campaign does not take place during Operation Desert Storm, despite the A-10's successes in that conflict. The Skunleworks team must have realized that many sim fans have spent more

























time flying over Irap and Kuwast during the past seven years than most active-duty Air Force pilots have So instead of re-revisiting that combat theater A-10 WARTHOG instead puts you on the front lines of the battle the aircraft was designed to fight; a communist push into West Germany

Dubbed Operation Valunt Nunter, this campaign takes place in the Fulda Gap region of Germany during the mid-1980s. Look for a bit of a Reagan-era look and feel to Paul Stankiewsz's rut-scene videos

and inserface. At first glance, some similarities to the LONGBOW 2 campaign will be evident in the Vallact Huster section. For instance, when presented with a mission, you'll be able to choose between four Rights, giving you same choice of what kind of target you want to attack. Along with pure tankbusting, other mission types will include search and sescue, close all-support, suppression of enemy oir defenses, and joint attacks with helicopters.

One bin difference between A-10 WARRINGS and LONGROW 2 is that the campaign in A-10 won't be dynamic Instead, it will feature a scripted, branching-mission structure. Replayability shouldn't be a problem, however due to the nature of the campaign. While victory-or defeat-will usually come after 20-30 missions, these will be drawn from a total gool of about 200. Random elements will keep missions from being predictable even on replay Surfaceto-air missile sites, for instance,

location and vary in number between missions, which should keep your adrenatine level up even when you're attacking a known target. While the campaign is scripted, the world won't be static. When you nass over a building or bridge you destroyed in a previous mission, you'll see its wireckage.

In addition to the campaigns. you'll also find about 15 single missions in each combat theater. There's no mission editor. included, but the team hopes to work with a third party-just as make one available after the

### product ships. Just the FAC, Ma'am,

One particular role of the A-10 deserves special attention: that of Forward Air Controller (EAC). The modern EAC role originated in Vietnam, where brave priots in try Cessna 0-1 Bird Doos and O-2 Skymasters would search for enemy targets and then direct fast-moving arreraft in for the

strike Over the years, FAC pilots have been equipped with better planes, such as the CIV-10 Brosco, But more so. deadly as the A-10 for OA-10A, as it's railed in the FAC rolel. The A-10's slow speed and long loster time make it an effective platform for searching for enemy taxcets. With its heavy armor and

Continued on pa. 88

### The Real A-10

Air Force Brise in Arizone in October 1979. Designed by higher life Republic (descendant of the company that bull the WAII P-67 Thunderbolt and the Victorem-ure F-105 Thunderbolt, the A-10 was officially drittened "Thunderbolt it." but is known by pilots as the Warthog.

In the early 1990s, but the plane's superb performance in the Gulf War, In which it flew 8,100 sorties, caused the Air Force to recyahate that decision. The plane is new expected to remain in service es lete as 2030.

The A-10 is perhaps most famous for its GAU-E/A Gettling canons. This even-barred weapon wedges 1,963 pounds compty. 3,230 pounds when loaded with 30mm depleted ure uns shells. The canons, which can fire 3,900 rounds a minute with a muzzle velocity of 3,200 feet per second, it extrems careats, with more than 100 accounts, with more than 100 accounts, with more than 100 accounts of the bulls, billion less

interestingly, the A-10 scored the only two gun kills of Operation Desert Storm, destroying two helicopters with its

rth, 53 fent 4 Inches; height, 14 5 inches; wingspan, 57 feet 6 inch-







E X P A N









COLONIZE THE PLANET AND BEYOND
Retrace the steps of mainlind across the globe. Build orbital space
colonies and add speed to your arsenal. Discover and horvest vest
cosmic resources to grow immense underwater empires.





I Z O N S



# CIVILIZATION CALL TO POWER

Go to #145 @ www.computergaming.com/infoli

### Continued from pa. 81

redundant systems, it's certainly a safer platform for orbiting a betthefield. And if it's connected. there's always that 30mm cannon for self-defense.

A-10 WARTHOG provides a tactical map that gives you an overview of the battlefield, displaying friendly assets and the last known location of enemy units that have been spotted by fnendlies. You can access this map for reference in any mission, but it really comes into play during the FAC missions, when it's your interface for sending orders to your air assets. In real A-10s. FACs actually mark target information on their canopies using arease nearly before radioing it to other units. The developers experimented with this technique, but found it unwieldy in the sim environment-flux the use of the map interface.

When you detect an enemy target, you'll be able to send in aircraft or helicopters to attack, but not around units. For best results. you'll went to mark your target with smoke rockets. If you don't, the air units you call in are more Ifkely to miss. Francine Hunter who is developing the FAC por-Sons of the sim, says the Al will be fairly intelligent in how it attacks: If you worn the pilots that there are friendly units around, it will choose appropriate weaponry. avoiding the use of area munitions such as cluster bombs.

A-10 will also give you guite a

bit of control over your wingmen's actions You'll be able to command them to attack your target. targets of any type, mission-specific targets, ground threats, air threats, and targets of opportunity. You'll also be able to specify which tactics they should use Shooter, in which they go in to attack the target directly: Cover, in

which they worth your back; Decox in which they try to draw fire so you can attack or Suppression, in which they wfl attempt to take out enemy air defenses. in multiplayer

mode, you'll be able to fly with human wingmen. Of course there's the requisite death match mode, but you can also fly single and campaign missions with

human wingmen. Terrain Ride The A-10 isn't exactly renowned for its sneed, but

it's fast compared to the AH-64D Longbow simulat ed in Skunkworks' previous sims Because the A-10 can cover so

much more ground in the same time, the area you'll be able to fly over in A-10 WARTHOG WILL dwarf that of LONGBOW 2. Here the battlefields are 200 kilometers source, as opposed to the





50x50 kilometer maps in the earlier title Vincent Lin and the other A-10 artists start with digi-

tal elevation map data for the regions being modeled and then feed that data into a program called World Construction See Here they can properly overlay appropriate details for a regionwhether it's rocky, forested, flat, urban, or other. The team is even overlaving road maps for the regions onto the game map, so you'll be able to accurately navigate using major highways. A variety of high-res texture objects. including form fields meds and airstrips will enhance the look of

the world below you. One of the more impressive aspects of the terrain engine is its use of detail textures to give you a better sense of speed at low altitudes. When you descend far enough, a "noise"

texture adds pixel details to the terrain. Because your aircraft is now visibly passing over thousends of pixels instead of large natches of a smale color the sensation of speed is dramate cally enhanced. In the early build of the program I flew, the detail popped in rather suddenh: it's hoped the A-10 WARTHOG team can eventually make the transition gradual.

Although the graphics engine in this sim is new, you'll notice the effects that made LONGBOW 2 so. impressive dynamic lighting, polygors that don't "pop up," and so on. (And feer not. JANE'S F-15 yeterans-no melting mountain effects here.) But overall, the envirooment in A-10 should feel very real. In the second campaign, you'll fly not over a desert or sparsely







Kegon Falls



Dien you design and build a SI-story tower uith exergiting from dictions held rooms to juice bors to security systems, problems will arrise, find some will more taileriging than eithers. Like massive fires, Ferrons town brands. And 37-year-old ducks wab bought million deliar condes only to find themselved liking under the haltest ruse in teum. Froit Yaol Srite, the creater at Sim Tower.

YOOT Tower YOU BUILD IT YOU DEAL WITH IT.







MICRO PRO





E in the

### "Madition named at The story line is gripping,

and the graphics are great eye candy.

Blowing up stuff was never this cool."

\*\*\*



"...if the accusation is Best Real-Time Strategy Game of 1998, MechCommander is guilty as charged."
Sci-Fi Charnels Dominion

"Command Performance... 9.0"

Don Crabb-Chicago Sun Times

...a breakout title for the MechWarrior franchise."

-PC Gam:r "The detail that's been lavished

Commander is extraordinary

is, without a doubt, a true classic."
-PC Format

"If you buy only one real-time strategy game this year, make sure it's this one." www.combatslm.com

> In a year of excellent real-time strategy games, chCommander has muscled its way to the top." -Boston Globe

## MECHTCOMMANDER

Avoilable for Windows 95/98. Visit your local retailer or call 1-800-695-GAME day or night (US and Canada). Check out www.meckcommender.com for News Took Links Electors News Many



### Warthogs on the Web

The Web boasts a variety of A-10 resources. Here are some of the more interesting pages we found.

### A-10 Fact Sheet

The USAF's officel A-10 information page www.af.mil/news/factsheets/A 10 OA 10 I hunderbolt U.html

The A-10 Warthog Homepage eintained by a Warthog pil www.shreve.net/-blade

Warthog Territory
A log fan's paradise, with files, book
ists, video clips, and more
www.ecis.com/%7ewease//a10/

A-10 Hog Lover's Homepage Maintained by a group of A-10 ancioned www.hoglovers.mcmail.com/

Lockheed Martin Federal Systems An A-10 screensiver from the company that sup-ports the plane for the USAF www.owego.com/a10prime/

Pat's World
A shoo gallery of A-10 Descri Stone battle damage



populated areas of Korea, but over the heart of Germany. So look for planty of objectsnot only military structures, but also farmhouses, city blocks, and the like-to flesh things out. You'll also find that ground units feel alive here. They should be constantly on the move or engacing the enemy, rather than just sitting around as static targets.

the graphics engine will support both 3Dfx Glide and Direct3D APIs. Resolutions of at least 800x500 will be available, biober resolution support will depend on what kind of performance the team sees in the upcoming generation of 3D cards.

### In the Titanium Bathtub Of course, the place where the Jane's

sims created under Andy Hollis have been unparalleled is in the simulation of the cockeit experience, and that holds true here. Virtually every system found in the titanium-amound cockoit of a roal A-10 is modeled here in exacting detail As I sat with Mark Drajeske, who is developing the flight models for A-10, I felt like I was being briefed for a flight in the real

plane. A former engineer with McDonneil-

Douglas, Drajeske helped develop an AC-130 training simulation for the Air Force Special Dos forces and the flight modeling for the BACK TO BACHDAD E 16 sim A-10 WARRING will feature a 3D virtual

cockpit with a full set of mouse-clickable controts. The differences between the real cockpit and the one in the game are negligible. To make room for the autopilot panel, the developers have removed three instruments not necessary to gameplay-the UHF frequency indicator the standby attitude indicator and the clock-but otherwise the panel is virtual ly identical to that of the actual jet. The real A-10 doesn't have radar so most

of the learning curve new players will climb rivolves the heads-up display (HUD), the Maverick missile targeting system, and the various weapons release modes. Recause you have no high-tech targeting systems, combat in the A-10 feels similar to combat in the plane's WWII namesale, the P.47 Thursderbott: It basically boils down to "point the plane at the enemy and shoot until the

enemy isn't there anymore." That's not to say there aren't loads of details here for the hard-core pilot who wants

to delve into the plane's systems. Virtually every weapon the mal A-10 can carry has been meticulously modeled: Mis-B2, -B3, and -84 general purpose bombs (both low-drap and air retarded variants? Mk-77 Nanalm bombs: Rockeye and CBU-52, -87, and -97 duster bombs: GBU-10 and -12 laser-quided bembs: TV- and infrared-quided AGM-65 Mayericks: explosive and smoke variants of the LALLS enriest SUIL-25 Humination flarest AIM-9 Sidewinder air to-air missiles; and the stahvart GAU-8/A 30mm cannon

The HUD system, called LASTE (Low-Altitude Safety and Targeting Equipment), gives you a wealth of targeting options. You can drop weapons individually or in pairs,



### APD BALYPSE RIGHT NOW



APACHE

HAVOC



### "THE BEST HELICOPTER SIMULATION 91% PC GAMER (UK)

- \* Two fully simulated combet helitogreers; the US AH-64D Apache Longbow & Russian MI-28N Havoc B.
- \* 3D engine specifically designed for low level heliconter combat.
- Highly detailed and articulated 3D models and
- authorite fight dynamics.
- \* Three vast combat zones featuring countless missions and dynamic campaires that offer something
- different every time you play. \* All weather missions - day right, dask, down and rain



Massive multi-claver campalans, via senal, modern,

\* 30 feed cockpit views and a detailed wrong 3D coclose for each chooser.

\* Fantastic storeo strand effects and speech \* Direct3D® support.

THE ULTIMATE POWER STRUGGLE, THE ULTIMATE FIGHTING MACHINE

On to 4042 @ www.comouderneming.com/info/info

Call 1 800 216 9706 www.empire-us.com







## IFREALITYHAD APATENT WE'D OWN IT."















There's nowhere in this world you can't go. Real-time moveable sectional charts and interactive vector maps allow accurate navigation across 16,000 rayaids in 200 countries, including over 13,000 runews at 9,500 aircorts.

The aircraft you are about to Ily is fully operational. The game features accurate cuckpits and aviories, all in the correct proportions and layout of the original aircraft. Every gauge, switch, and knot in the eccknit is ready for Interaction, thanks to the most meticulously detailed cookpit to date, with quiffule interactive interior views.

It's the most realistic general eviation flight simulator ever Greated for the PC. Integrated flight glanner and aircraft load out allows visual planning of cross-country flights and user-defined fuel, passenger, and carpo loads.

Elevation Model (DEM) recreates elevations throughout the world.

. Internet-ready support allows for text and live chaf communications with up to 7 other pilots.

- FLY! Now allows you to pilet your aircraft in a variety of pre-configured conditions and scenarios.

 See New York, Los Angeles, San Francisco, Chicago, and Dallas/Fort Worth in high-detail satellite imagery and stunning 30 models of key buildings and fandmarks.

• Native 30 hardware support for Microsoft Direct 30, 30fx, Glide, Rendition Redline, NEC PowerVR, and Apple Rave. · Available for the Mac and PC.

Coming March 1999

www.iflytri.com













### just bufers it folks victim to an A-10's gun during a cut-scene.

and in single-drop or ripple mode. Parameters such as drop quantity and delay for ripple mode can be adjusted for each weapon type. And you can also designate highor low-drag for specific weapons, depending on how quickly you need them to reach the target. The HUD features navigation and air-to-air modes (the

A-10 uses the same gun "funnel" display software as an F-16), as well as air-to-ground options including TV and imaging infrared Maverick targeting, a CCIP line to compute bomb impact points on a designated target, and manual targeting.

### Damn! Damage!

In real life, Fairchild-Republic designed the A-10 to survive amazing punishment. The pilot is one of the only systens in the plane without a backup. A-10 WARTHOG's flight and damage modeling will take this into account, and much of the excitement will come from trying to nurse a wounded bird home. Each major system and surface in the aircraft has the potential to be damaged, and the sim will feature a





### MAKE YOUR OWN DAMN ROAD!



# POWER SLIDE

SCREAMING-FAST DRIVE ANYWHERE







FPS at the speed of thought

continuomintal a player multiplaye

fort Snowt Jad faord















WORLD WAR II PIGHTERS-level of detail in its oraphical desiction of damage.

The sim's flight model was mostly complete when I visited the Skunkworks office, and the handling was very good. The full six-degrees-of-freedom force-and-moment flight model replicates not only the plane's normal flying characteristics but also the quirks and variations you get at different loads and altitudes. Adverse yow during rolling maneuvers, for instance, can cause your plane's nose to move in the opposite direction of the roll, in high Ghigh angle of attack conditions, the yow can cause a wing to stall, or disrupt airflow to one of the engines, causing it to shut down.

The serodynamic model actually uses control surface deflections to manager the plane, and when a surface gets blown off or stuck in one position due to damage, maneuvering will be appropriately hampered. Flying the A-10 will be an interesting experience for players weared on F-16 and F-22 sms. Unlike in those planes, the A-10's thrust doesn't exceed its weight (depending on load, the thrust-to-weight ratio ranges from 0.4:1 to 0.6:1), and pilots will find that while the A-10 excels at instantaneous turns, it quickly bleeds speed during sustained turns. And forget going vertical, at least for more than a few seconds. Also, the A-10's turbofan engines take about five seconds to spool up.

so you'll have to think ahead when flying this plane. The A-10 features Stability Augmentation Systems for both pitch and yow, which temper some of the plane's handling characteristics. If you shut these down, or if they're damaged. the plane won't be nearly as tame. If your plane's dual hythoulics systems are damaged, the sim models the Marual











e to Eight Players

urnament Play available

3 Types play: percentage of

Compatible with Gravis-type old, or Keyboard/Mouse





You see Pinky, the plan is to develop a word hypothe movings that will make humans that I am a thought rate, and

embed it is an action-packed video game. Naturally we will be the stars People will play the game by themselves

and become horribly addicted Then they will want to play the game with their friends, and their

friends will become addicted. Soon, they will play the game. over the Internet, a silly little information infrastructure that humans use to "chat" with each other Anymay, once we

control the Internet, every human being will bow down before me, their rightful master. And by the turn

the world will be ours!





Reversion Mode (MRM), which literally uses cables to fly the plane. In this mode the A-10 is very difficult to handle, and plicits forced to use it are advised to fiv in MRM until they reach a friendly base, then elect. At least one A-10 damaged in Desert Storm managed a wheels-up, MRM landing-considered a major accomplishment.

Draieske left me with five-and-a-half full single-spaced pages describing the flight-modeling and system-damage modes, far more than I can detail here. Other impressive details include the ability to windmill-restart a damaged engine in case of an APU failure, modeling of compressor stalls and engine overheating, and full trim control.

### **Hog Tied**

A-10 WARTING has the potential to be the most popular sim to come out by an Origin Skunkworks team. The aircraft is easier to master than a Lonobow or an F-15 Eacle.



yet the detail looks to be there to please the hardest of the hard-core. The Avida Gap scenario should appeal to military buffs who will be pleased both by the what-if nature of the battle and by the fact that it's not yet another reteiling of Desert Storm, And unite AME'S F-15, which hasically offered only arcade or hard-core modes, A-10 WARTHOG should be able to gradually bring casual players into the serious fold through its training and ramp-up campaign. Toss in the regulate flashy graphics and it seems Jane's has perfected the recipe for success, ISAIT

When Denny Atkin is not flying the latest WWW sim, he's living out his delusions of demigraphood in POPULOUS: THE REGIMENS.











Sozens of detailed compaign option varied missions and realistic play

joysticks, 3D eards and Force Feedback

LEAD, DESTROY, OR GET THE HELL OUT OF THE WAY.



JEL TO "THE ACTION GAME OF THE YEAR."























### Building a

Biohic Rig IS

easier (And Chearer)

entlemen, we have the technology...
This is about me, dammit. It's not bout how to build some set of bistract computers from a list of components. It's not about Microsoft

Iffice, Photoshop, Windlench, or unfoCAD It's short ERROPAY ARK WAR, HALF-LIFE, KAIRROJO TYCOON III, and BALDUN'S GATE. It's also not about CPUI, bilinear filtering, overclossing, or transfer rates. Sur, I'll touch ossene of those loop, but these systems are built by me as killer gaming systems. Are some of the choices subjective? You bet, But

I've based all of the choices on our fundamential desire to build as fast and as beefed up a set of systems as possible for several different budgets.

One thing I want to stress is that these systems are real. I keep the high- and rig and the \$2,000 system alive and running all the time. Those systems are constantly

and running all the time. Those systems are constantly evolving. I put together the \$1,200 rig as an exercise, and it actually ran games pretty well.

Keeping them alive helps shape some of my choices.

Certain components sound good in theory, but I have no

COMPUTER GAMING WORLD - MERCHANNING

Interest in being a systems ananger—I want to get down and dirty in the cockpt of a Spifftre Mist, or dodge marines in HAU-FUFF Speed Is important, certainly, but so is stability. These bower get harmored with a variety of

Than You

games nearly every day.

As you read through the details of our three systems, keep in mind your own needs and wants. You might not be interested in shullding a system from the ground up, but you may well want to upgrade your explicing system in the future. Consider this a quide to upgrades you. Most of this open would make prime candidates for any one's youturn and we'll give you the longwarm only they are our components of choice. So, without further, and let's no thus.

#### THE POWER RIG

est of us can only am of owning. Still practical at a funda-Evel There are no RAID maintain, no mother-

that need PCI bridge chips \$5,500 monitors. But it fea fast CPU, the fastest hard ou can get-one of the st, too-and graphics that

mag off high polygon counts hune tradures while it keeps ping out frames. I cover components in detail a but let's touch on a few cs. The core of the system is 4SOMHz Pontium II. The

dum II lives on an ASUS P28-LS therboard with 256MB of 100 SDRAM, While money is no ect with the Power Ric, other cticalities do weigh in, like free

slots. The P2B-L5 has onboard

Ultra2 low-voltage differential SCSI in the form of the Adaptec 7890 SCSI controller chip. The hard drive is Seagate's Cheetah 18, supplying a massive 18GB of storage, And since the Cheetzh spins at 10,000xPM. It delivers that data

fast, formega's competent laz2 car-tridge drive provides our bodoup, white Pjoneer's DVD-302 SCSI DVD drive for CD-ROM and DVD disks rounds out the mass storage No gaming system would be

to without fast graphics. The very card for our Power Rig is Capopus Spectra 2500, which outled to a Quantum Obsidian 4 Veodoo<sup>2</sup> SLI graphics card. Spectra 2500 uses the nVidla VATNT chip, while the Obsidian

X-24 is a Voodoo<sup>2</sup> SU setup on a single PCI card. her items contribute to making this a higher end rig.

too, instead of using the power

enotos by michael falconer

supply that came with the case. which is ease tiefly a hero-mounting between with a co-of familiated as a rusers we substituted the PC Power and Cooling Turbotion 300. The InWintower case is an updated version of the case we chose last year, with an extra cooling fan added

cells to ken to hard drive a to its now-perforated front beauti ht = 18gh6 b it indiceable whire when its running and the const fam add to the ambience. On the subject of cooling the Cheetan Large seetly warm.

#### MACHINE THE LEAN

st yeer's budget rig Of course, you've gotta make ould have set you back 0,500, and it performed trad offs in alty \$2,000 system. and curs is no exception. For earn: audio we used the Diamond Sonic bstangally slower than bend system. This year's

closes the gap a bit-and Vortex chip, it's less than \$50. ce new drops under \$2,000 CELL and primary graphics come close to the Power lot of high-quality DirectSound 3D ere's a substantial price difof this writing) between Ofrice CPU and the 400MHz of his stable to squeeze in a

ing "only" 64MB of PC100 SDRAM. Not long ago, a 64MB sysine. For the primary graphics tem was extravapant unheard of but in the age of AGP, high-resoluchose the Creative Labs has Blaster TNT one of the tion games and MIDI samples stored in main memory 64MB is becoming the minimum. The CD-

wer cost of T boards out there. The Guillerm Miniperner 3D II handles Voor ... good less chores; at 599 after rebair ... k. or a hollura ROM drive is also something of a compromise, though we like the slot-loading feature. The biggest compromise, though, was the hard

Storm 590; which uses the Aureal ds pretty decent, but can hit the CPU pretty hard when there's a Other compremises include hav-

> driver tr's "only" 6.SGR To its one it. it spins at 7,200 RPM and him: a pretty quick access time. We didn't compromise on the case, however. While difficult tofind and often back-ordered, the

Elan With T10-AB (also sold una the ASUS name) is one of the cases around if you upgrate fre

quently. If you're the kind of pass ho gets a system and opensi maybe once in three years don't need this case. But if y spend a lot of time tinkering

a beauty. The 235W power supp that ships with the case seems to handle all the hardware we've added with ease.





#### AINS AND BR

oth our Power Rig and our Leen Machine have matherhaank that use Intel's 440BX chipset

The main reason you need the 4408X is to support the 400MHz and 450MHz Pentium Il processors, which use the 100MHz front side bus (that is, the memory is clocked at 100MHz instead of 66MHz, as in past systerns). But there's another importent consideration for a motherboard: Can you upgrade it? Most 440BX motherboards will support intel's next generation Katmai CPU when it ships in 1999, (Bear in mind you'll probably went Ketmai. even if you don't pick it up at first

improve 3D geometry calculations by as much as 70 percent with games that support it.) Even if your budget such that you can afford, say, only a 300MHz CPU, you should still get a 4408X motherboard and PC100 SDRAM. That will give you lots of

release. The new CPU instructions

that are part of Katmai promise to

to swep out your motherboard

and RAM. The Power Rig's ASUS P2B-LS has four PCI slots, three ISA slots (one PCI slot shares a space with one ISA slot), and, of course, the

board is the built-in Adapted Ultra2 SCSL which has the same performance as Adaptec's 2940U2W card-and since the SCSI card costs around \$300 onboard SCSI is a good deal. The AGP slot. The cool thing about this onboard intel 10/100 Ethernet chip is handy for local area network gaming. The P28-L5 had

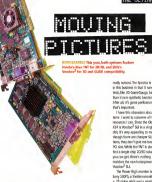
some problems with Ultra2 SCSI

devices when it first shipped, but the current BKIS release has stabli-Reed the board, and everything has run rock solid for several months now ASIX also makes versions of the P28 with orthoand

LAN or onboard SCSI alone The Abit 8H5 used in the Lean Machine has five PCI slots two ISA slots (a PCI slot shares a position with an ISA slot), and only three ORMAN sockers But with the Bids you can set (and tweek) clock speeds in the system BIOS. The BHS seems much more stable than its older sibling, the 8006, and has an extra PCI slet

Other than the obvious clock rate, there is one key difference between the Pentium II CPUs. The 450MHz CPU is the boxed version. complete with fan. However, for budget reasons I couldn't squeeze in a 400MHz based CPU so I went with an OEM CPU. That forced me to buy a separate fan, but the total cost was still less than the boxed CPU The peril with this approach is that intel will only honor a 90-day warranty on OEM CPUs, and you have to go through your reseller to





in this business in that it runs game tests, like 3D GameGauge, better than it runs synthetic benchmarks. After all, it's game performance that's important. I have this obsession about systerms I want to conserve all the

really noticed. The Spectra is unique

resources I can Since the Obsidian X24 is Voodoo<sup>2</sup> SUI in a single PCI dot, it's very appealing to me: even though there are cheaper SU solutions, they don't give me back a PCI slot. While the TNT is about as fest a single-chip 2D/3D solution as you can get, there's nothing that matches the raw horsenower of Voodoo<sup>2</sup> S.I.

The Power Rig's monitor is the Sony 500PS, a Trinitron monitor with a .25 stripe pitch and a relatively high bendwidth. It actually looks good at 1280v1024, and you can run it at 1600x1200 if you want On the Lean Machine, we manage to sowere in a TNT board by using the no-fifts Creative Labs Graphics Blaster TNT This is a fairly sweet board, though Creative has

been somewhat tardy with its driver updates. The card ships with Colorific's color matching tools and 3Deep garrina correction package. It may be my imagination, but after I ran the Colorific collibration. the overall image seemed crisper and brighter

It wasn't possible to get SU into a sub-\$2,000 box, but thanks to Guillemot's accressive pricing. I did get a capable, 12148 Voodoo2 reference board into the system for \$99, after rebate For the Lean Machine monitor

we chose the Ontinuest V25. This is a relatively high bandwidth, 17inch monitor and will actually run at 1600x1200, though Windows text is far too small for good legibility through my eyes. You can find it for less than \$180 with a little searching There's another piece of graph-

ics hardware that found its way into the Power Ricc a hardware DVD decoder. I went with a Quadrant International Cinemaster decoder: It ships inside a DVD kit, or you can find white box versions from resellers. Its claim to fame is that it does not require any passthrough cables for video. All video data transfers over the PCI bus. The primany graphics rand has to support linear frame buffer but almost all do these days Video image qualiby with the Cinemaster looks pretty good to my eye-I had to squint to see artifacts in screes with a lot of motion.

or garring, the praphics subsystem ranks second only to the CPU Even if you don't play 3D titles much. the graphics card is still important. Even playing

a real-time strategy game, such as STARCRAFT, can demand a lot of a cranhies card.

Campus has thoughtfully added a fan to its Spectra 2500, which we used in the Power Rig.

Since the environment inside the ble ric gets pretty werm, that's a nice touch. More interesting is the reverse passthrough. Unille most setups with a Voodoo2 card, the monitor plugs into the Canopus card. A special cable connects the monitor output from the X24 to the

Spectra. This theoretically improves 20 image quali-

by though I





Express yoursell through art, literature or music!

Welcome Pledges, Your Professity Brothers, bears a distribute as walling for you lift his DO U compile and see his world brough historymou

TVs layerite mercus go islatly collegiate.

They'll allempt to do lise impossible (with for lists encyony); revre
with the esculat

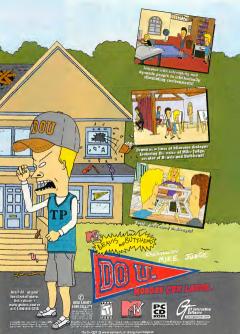
Spine look and feel as the original TV series, with framents of their of interiors new distance.

BEAVIS AND BUTT-HEAD: DO U.

Whoa, check it o

Berris and Ball-hand are consele with "Gel Big in Fatywood", and now ready to wherever very go on Mathanda "Game Bay"!

reals & hardward M.E. D. D. 1981 STY Entered. At Entert closed THE Vibration (Theorem & But April 1981 State Court of the Court of the





YOUR HERO

IN THE GAME IN THE COCKPIT IN THE DRIVER'S SEAT

BE IN THE HEAD OF

design by





With the UR GEAR helmet and Double Device Technology you can be in control of your racing car with a joystick or steering wheel and still look around at the same time. Pilot an airplane with any device you like and turn your head to see the enemy without touching a key. Be able to see everywhere...independent of the direction you're going. Fire at will. Be in the game. Be in the head of your hero.



AVAILABLE AT: Extendes Dr -DISTRIBUITED TRADUSE: AN phostion Cictoric Dudger Frys Dictions Cylinian Oxford AND Other RETAILERS For future informations:

#### 



me installs aren't petting any smallec so with any system you're poing to need ample

room and a fast CD-ROM to keep installations and gameplay moving along. The Power Riq has Seagate's massive Cheetah 18 hard

drive in the big tower chassis. As for speed, the Cheetah 18 spins at 10,000RPM and has an access time under 6 milliseconds, with transfer rates that approach 20MR/sec over the Ultra2 SCSI bus. The CD-RDM chores are handled by a Pioneer DVD-302 SCSI DVD drive, which should perform as a 20x CD-ROM drive and a 2.6x DVD drive. The DVD-302 mates well with the Citemaster DVD decoder Maybe I can finally

boot up the DVD version of RIVEN that's been sitting on my shelf. (Then again, maybe not.) Still, it is nice to have DVD without a huge sacrifice in CD-ROM performance. Since the Power Rig is no-holds barred, I added backup in the form of an iomega

Jaz2. It can use 2GR removable cartridges to back up important data, and it's faster than comething like CD-Rbut the cartridges are more fragile. On the Lean Machine, the hard drive is the trusty Seconde Medalist Pro 6530. The

DIVE DIVE! The dual fans on the Seagate Cheetah 18 make it look like a mini-sub. Both disc readers are slot-feeders, eliminating caddles and cup-holders.

ione holdover from last year's budget ng, the 6530 makes it back due to its good performance and low price of \$199. Plus, it spins at 7.2006PM and holds up to 6.5GB of data. Pioneer's new DR-7045 gets the nod as our CD-ROM drive here. It's probably no better or worse than the majority of ATAPI CD-ROM drives, but I'm hooked on the slot-loading concept. Certainly a 36x drive for \$69 is north-

#### ing to be sneezed at.

#### GETTING OUT faster) alternative, although your local y bugh speed con-

tivity to the while world. you've got a comthex vertety of choices within the Power Rig's budgot, depending on what's available

in your geographic region, XDSL or cubie moderns are beginning to provincente, and one or both may be peallable to you as options. Either is much liester than a gender-variety modern and should get you great ping times as well. Between the two, cable modern services seem to be the cheeper (and are often the

phone company may have an interesting XDSL offer, Recause these technologies haven't quite percolated to where I live, I've opted for an ISDN terminal adapter, a technology that's

poetty whitely available The ISDN modern is 3Com's ImpacttO, which will set you back about \$200. The real cost of ISDN is in the daily per-minute charges (frough the first 200 hours of offpeak use is free), so you do have to

be careful. The ImpactIQ can autoconfigure all the complex ISON data. which makes it much easier to set up then

meny terminal adapters. I use the external ImpactiQ, which lets me keen a fee machine at the mady even when the PC is powered down. I can get download speeds in excess of 120Kbits/sec-quite a bit faster than a good 56K modern. The built-in Intel 10/100 Ethernet chip plugs me into my home LAN for multi-

player action. The Lean Machine uses a Diamond Supra 56e external V.90 modern. Most Innemet service providers

are linely moving to the V90 standard for 56K. Note that the best connection you can get is 53Kbps due to voltage restrictions on phone lines in the United States The Diamond modern is definitely low budget, and you'll need a 9-pin to 25-pin adapter to connect it. 56K modems may be the last stop on the line for analog-



### Why(everyone is asking us)

The guy's been a NASCAR money maker almost since the day he started on the circuit, but a license doesn't guarantee anything.

exactly the right choice. Jeff wasn't just going to sign his name to the title, collect his check, and forget about it. He actively wanted to be involved, because, as it turns out, the youngest Winston Cup series winner ever is himself an avid gamer. His first passion may

be NASCAR, but it's equaled by his love of videogames - he even lists it under his hobbies in NASCAR program booklets.

We found this our in the first five minutes as he enserty compared bur designs-with-a-dozen other racing titles, all of which he was intimately familiar with. "So the bondling is a little like Porsche. Challenge?" Gordon would say, "That's good - the handling was the best part about that game."

His enthusiasm was both obvious and intectious. From the beginning be understood game mechanics, and not just from racing games, even cracking jokes about an extended same of Asteroids he played once.

When the team at ASC Games met with leff Gordon to go over some preliminary designs it quickly became obvious he was

At one point in our meeting while taking a lap on the first playable PC version of the game, the car kept slipping out from under him at the same point on

#### STATS

3 Time Winston **Cup Champion** The winningest NASCAR driver

of this generation Won his 3rd Winston Cup Title in 4 years

Co-producer, Co-designer for ASC Games

"What I'd like to see is that no matter how good or how had you are at this game. there's a lot of competition, a lot of side by side racing, so that even when you pass, they're still on your tail... I hate it when you get out in front and never see them again in a game anyway!"









each lip. With one hand on the wheel and one pointing at the monitor he sid! Something is wone, right here sitte enough when we opened up the code to take a look missing from the every spot that Jeff pointed to was a missing polygon that made up the track surface.

He pushed past our mittal, simple explanations and disdeeper, with a surprisingly well-informed opinion on everything from rack design to the opening animation. "White label like Concords Speedowy," be girns looleing over a concept theeth, "but it hodes coal: "It is not a half," unless 35 objects bendring a now work taking two coals reach 300 miles an hour ou that reach!"

The simple fact is, he was as interested in meeting us as we were in meeting him. He only wanted to be associated with a game he himself wanted to play

## We could reach 300 miles an hour on that track!

so, why Jeff Gordon? Beausacing, he's also an enthurarr gote that a few years age. Goponsorship meeting. isn't just an expert on king gamer. The story went to one of his first suit and carrying a

ound too strange to be true? Well, meet with Gardon I in minutes and talk about games, my games. He tal



JEER GURDON

Hardcore Gamei

And the second of the second o

www.ascgames.com

CARE,

#### BRINGETHEINDISE

bido is hot once agon. We've emerged from the dicforums induced by the aged Sound Blaster standard. Even Creative Labs has umped as the PCI wagon in a big way with ics Sound Blaster Live card. The sound card for the Power Rig was

probably out of the exciptor choices to pury go with the Soroll Mister for o Charmon's board MCOST on Centre on the pix about the Country of the Country of

the MCGGD sections a disciplinated Roland Sound Convosing me pop on my reverted Roland Sound Convosing SCD-15 MRDI waventelfe daughtercard.

Speakers for the Power Rig are still the Emment Technologies LFT-11s, a holdower from the host

Speakers for the Power log are son one Emment Technologies LPT-15, a heldower from last year's spikern. These continue to be the best PC speakers we've heard, on a per with menry high-fidelity audio speakers. A point of Alfre-Lementa ACS-43s currently handle the rece-speaker.

civores for four-speaker DirectSound3D, However, Em is working on a four-speaker version of its LFF-11s,

and we're very much looking forward to them As the sound card for the Lean Machine we chose the Dermand Sonic Impact S90, which uses Aureal's Vortex 1 chipset

The \$90 can eat up CPU cycles when "accelerating" DriverSoundSD, but it sup-

DirectSoundB0, but it supports A3D and costs less than \$50. Until something better corresationg at that price, it will be fine. It sounds good, with decent support for same controllers and DOS carries, though

TURN IT UP Diamond's MX-200 coupled with Roland's SC 15 MIDI daughterard covers all the bases, although the Sonic Impact will set the job done adequately.

#### MOSEBLEED SECTION

as ye, it we deathed to sentill a stant a prime, can be mostly proteined to a country of the cou

The whole was a first and the first industrial and the first former and the control for any other than the first first first former and the control former and t

we thought now you have been about new speakeds but the floating-point performance Isn't quite up to small yet, even with the 366MHz chip. On the other hand, we could have be Bargain Box for less. The real consideration, it turns out, is no stability, particularly with AGP-2x graphics cards.





#### **DEMONSTRATION #2:**

- 🕕 Tear out your old sound card.
- Smash into pieces.
- Toss over your shoulder.
- The sound those pieces make when they hit the ground all around you is the power of A3D from Aureal, the only audio that works the way your ears do.

That's why leading sound card vendors, such as Diamond, TerraTec, Turtle Beach, and Xitel, are using Vortex audio technology from Aureal, the only 3D audio accelerator that supports industry leading A3D positional audio technology.

You can also find A3D positional audio on computer models from the industry's leading PC manufacturers.

Audio based on Aureal technology is awesome. But don't take our word for it. Believe Your Ears. Check out A3D at your local retailer.



ELIEVE YOUR EARS"

Visit us at www.A3D.com

D1916 Aurust Semiconductor, Inc. ASO sed Aurust are Indomerka of Aurust Sambondustor Inc. Other tradementa are properties of their respective ex-

In the year 2033 cancer has been cured, global warming has stopped, and there is only one species left on the endangered list...

#### • • us •

#### Christmas Eve 2032

Last minute shoppers crowd the stores, workers down eggnog at company parties and parents put excited children to bet. Without warning, a murderous insanity overcomes one third of the Earth's population. Planes crash, cities burn and millions die.

What is the cause of this strange affliction? Is it some kind of bio-chemical agent that has been unleashed upon the world? Or is this Armageddon, as predicted in Biblical prophecy?. As Bishop Six, it is your mission to find the cause and end the destruction before all hope is lost.















Mission-based play through military installations, subway systems and enemy command center

#### 

www.qet really.personal-let's look at game controllers. We opted for ThrustMaster's F22 Pro joystick, mated to its TQS throttle and Elite rudder pedals for the light gear. These are just the ticket when flying detail-laden sims, such as LONGBOW 2. Programming the F22/TOS combo is a chore, but it's made a little easier with Fox Two Pro. a tool sneofically for pro-

pragging the F22/TOS. As a comenad choice, Microsoft's Freestyle Pro is interesting, but you can run only two of the USB and one via the loyatick port. We goted for ThrustMaster's Rage 3D: It's a comfortable

mable gamenad for large-handed gamers, and you can dasy-chain up to four of them. Finally, there's the Extreme Competition CDS4000 racing wheel and pedals, the unit



that made me a fan of racing games. Before using the CDS4000, I was very casual about racing sims. I have a lot more fun these days-that's what winning will do st have to figure out how to afford one of my own.

dry tins the scales at more than 50 nounds and hits vallet for \$1.129. The Lean Machine controller choices are more basic. Ve did a lot of searching for a good universal game controller. It had to work in both DOS and Windows. be as flexible as possible, and be inexpensive. The

tition's COS (left) will stand up to the worst beating you can give it. folks at CH Products puts out the best compromise we've seen in the CH Garnestick 3D. It's not stellar in any single use, but it works well in most games, supports a fourth axis through the twist handle, and costs inly around \$55. If you want to throw in a gamepad or two, you can find Microsoft's

Cit's Gamestick 3D isn't the best controller is any or geare, but it does cover the different ass pretty well. Extre

teran SideWinder for around \$20, and you can daisy-chain up to four of them. ING...TESTING...

ugh and is a separete test from the

153

CD-FDW 123

30 Wis Leach 99

e a massive uncertast. There are now 15 see scenes, and many of the scenes have been like teday's crop of games. For example,

Audio Win8ench 99 wasn't quite ready during testing for Parts 1 & 2 Cannot run 1024x768x16 triple-buffered with Z-buffer

Lower scores are better

**Power Rig** Falcon Northwest Mach Lean Machine

Power Rip

Dell Dimension R400

Falcon Northwest Mach V Lean Machine



#### WHAT? YOUR IYPE?



F22 ADF Forsaken

(Frames For Second)
Power Rig
Falcon Northwest N
Lean Machine

Quake II

DON'T SHOOT

Welcome to Nanocorps, where you'll soon discover the benefits of being small. You're quick





Just In Case... You need something to put all this cool hardware into and something to feed it power. The big rig uses the updated version

of InWin's QS00 full tower case. The guts are basically the same, including the popout 3.5-inch drive bay and the removable motherboard tray, but the exterior has been undated. I ripped put the default power supply and added a PC Power and Cooling TurboCool 300, PC Power and Cooling makes power supplies that feed rock-solid current to the motherboard, and the Turbo Cool series pulls more air through the

system than do most power supplies. The case for the Lean Machine is the Elan Vital T10-AB. You can also find this case under the ASUS label-when you can find it. It's a difficult case to locate and is often back-ordered. But it's well worth the hunt. You can open the T10-AB without any tools. The 3.5-inch hard-drive bay snans out with the twist of a lever Pon off the front bezel and you can slide out the 5.25-Inch drive bay too, making CD-ROM drive mounting a span, it doesn't have a slide out tray but since it's so easy to vank out all the boys, that's not a big problem.

Some Assembly Required A few months back I received an email

from a reader. He had purchased all the parts for his own Lean Machine, and they were sitting on his kitchen table. He wanted to know what to do next. Building your own system isn't a trivial task, but if you've done regular upgrades-adding a graphics card, preparing a new hard drive or installing Win 98 from scratch-vou're ready to build a PC.

There are some basics you need to know. First, have a good set of took, I use a cordiess electric screwtriver; a long, very thin screwdriver; a set of forceos (to hande jumpers), a pair of needle-nose pliers: and an antistatic met. That's about it. The cordless screwdriver is a godsend and speeds the process dramatically Second. watch electrostatic discharge, particularly in very dry climates. In humid areas, it's probably sufficient to touch the case to discharge any static electricity, but in very dry weather you'll went to use an antistatic strap at the very least. You can pick one up at Radio Shack or similar hobby shops. Recording actual assembly, each of the systems has its own quirks, and there are some common to all systems

The PCI slots are an important factor and it's related to IROs Windows 98 can now do a better job of sharing those scarce IRQ resources with multiple devices, but some hardware still won't share IROs. The PCI standard defines a maximum of six PCI slots without additional hardware to conpert the PCI buses With all the onboard WO and the AGP slot, the PCI limitation is actually exceeded in both motherboards. This means that you may run into problems with an IRO hopging device in the last PCI slot (the one next to the ISA slots). In fact, that last slot may not get an IRO if all the IROs have been grabbed by other devices. The solution: Put your Voodoo2 card in that last slot, since it doesn't need an IRO

You may find that a veritable rat's nest of cables and wires develops inside the case. I never dress the cables, but you may want to pick up some cable ties and organize things a bit.

Inserting the CPU will prove to be your biogest bassle. The Protium II and the Coloron use a retention bracket. Currently, the brackets are different. In fact, there are two types of Pentium II brackets. One fastens to the motherboard with screws that feed in from underneath the motherboard. A newer type simply snaps into the motherboard. I much prefer the second type. since I frequently forcet to screw the old type in and must unbolt the whole mess just to attach the retention bracket.

Snapping in the Celeron is a dicey affair:

You have to use a lot more force than you do with the Perdium E. Grin the CPLIfteet. sink combo firmly before populars it in. Since Windows 98 comes on a bootable CO-ROM, installing from scratch is wastly easier than it used to be. Soot off the CO. get the drives partitioned and formatted. and Install Windows, Make sure you have all your drivers hands:

#### Let's Get It On

All of this effort pays off when you have that first successful boot. Now get those hot titles installed and frag some bad guys. You've not the best possible system availshie: the one you built. LCCL?

Thirty years ago, Loyd Case would have been up to his armpits in grease traing to graft fuel injection onto a '56 Ford, Lately, he's been hooked on EUROPEAN AIR WAR. to the constemation of his editors, who actually expect him to meet deadlines.









#### SHKAN Order of the Flame

his is DRAKAN Order of DRAKAN has pure visual elegance. Adrenaline Vault

DRAKAN has 'play me

written all over i PC Games

the Flame." A fantasy world replete with ever-present danger and the dark remnants of an ancient war. Bonded by an age-old alliance are Rynn, a quick-witted skillful warrior and Arokh, her powerful draconian steed. Together they must embark on a treacherous journey to defeat a dark plot to destroy the world of Drakan.

Experience the thrill of flying through vast, breathtaking 3D worlds, Master 50 different hand-to-hand combat weapons. employ up to seven different spells and rule the skies with five different dragon attacks. Multiplayer support for up to eight players lets you reign supreme over Internet or LAN.

Surreal





#### FEATURES COMPARISON

POWER RIG	
Component Modeline Control of Critical Memory Des Conference Control of Critical Cri	Manuf. ASUS P28 Pershins II 2559/8 ol 8 Reich II Casopus II Casopu
	TOTAL

nufacturer	Price
23-804.2	\$295
turn BMSD	\$450
VIB of Corsal/ PC100 SDRAM	\$350
Hin Lilland SCSI	50
nous Spectra 2500	\$175
otum3D Obsatum 304	5499
drant Cinemaster	\$129
	\$20
orto Chectals 18	\$1,200
now log 2	\$350
ner SCSI DWD	5179
/500FS	\$1,100
nord Monster Sound MC(300	\$22
11	\$500
Clareing ACS-83	\$40
rs kupactiQ	\$200
His listel 10/100 ethernet chip	\$0
An QSOO full tower AEX	\$85
oCool 300	5109
tech Newtouch	\$46
tech Cardless Wheel Mouse	\$50
csoft ScieWarder Freestyle	\$55

The Skinny	Web UE
It's cheaper than a standalone Ultra2 SCSI card	WWW assis on
It's the top of the heap, for your	www.intel.co
Just think, a guarter groabyte	No.
BD megabytes per second	
The reserve pass-through works, not to reaction great 3D and 2t	www.cimepuscorp.co
The ultimate, smale-slot Voodoo* card	www.quantum3d.co
For the DVD move bull	No.
You still have to have one	www.teac.co
It's big. it's fast, it's load . two out of three ain't had	www.sezoate.co
2 gigs of bedrug	www.iernega.co
Take the DVD plunge	www.pianeerusa.ca
Sharp, casp, bright and flat	www.sarry.co
For foor-speaker DirectSound, ASD, and EAX	www.diemondram.co
Beauthal irraging, dees sound	www.eminent-tech.co.
Just for the rear charries	www.altecrare.co
Faster than SSIc Novi If I could only get DSL	www.3core.co
For fregging my buckles	M
New emproved model	www.in-win.co
More power Scottyl	www.pcpawercoeling.co
In with the Newtouch, out with the Natural	www.legitech.co
No terber!	www.legitech.co
The	www.mxrosoft.com/hardwa
It just feels right	www.thrustmaster.co
More control than anyone needs	www.thrustmaster.co
Nearly perfect fast placement	www.thrustmaster.co

LEAN MACH.	INE	
Component	Manufacturer	Price
Motedoord	Abic 8145	590
OU	Fondkay 85500 + San	5325
Memory	64MB PC100 SDRAM	593
Disk Controller	Bult-in UDMA/33	\$6
Primary Graphics	Graphics Blaster TNT	\$130
Secondary Graphics	Garifernat Maxigamer2	\$90
Floppy D.swo	7690	52X
Hard Drive	Severate Medialit Pro 6530	\$199
CD-ROMOVO	Proneer 06U-704	165
Montor	Optiquest V75	\$350
Priestry Audio	Diamend Sonic Impact \$90	530
Secondary Audio	NA	50
Speakers	Boston Acquisites BAG35	595
Modern	Diamond Supralispress extracel NA	5101
Networking Case	Flor Vital T10-AB	23.
Pawer Supply	Bulli in 235W	s Si
Flavor Supply Kryboard	Logifoch Monitoech	517
Mouse/Pointing Device	Logiston resinceon Logiston PS/2 Wheel Mouse	517
Annalist Control of The Annalist Control	Of Garwards 30	955
MANA	Or Careson 30	301
	Total	\$1,815

	_
Price	T
995 \$325 \$325 \$33 \$40 \$130	N
	K
\$20 \$199 \$69 \$350 \$30	SERA
\$30 \$0 \$29 \$105	A
\$105 \$0 \$33	50
593 50 545 518 575	N St
55, 51,815	51
	-

)		
	The Skinny 5 PCI sits, Sethrera, 40000—ready for Katmai Red for from the 4500041 The only thing better would be 120008	www.shit.usa.com www.intel.c
	If's fast_If's bevealuble, and it's uncker \$150 Vocable* for \$500 of Cole garvas \$16 gotto hove Fast and hove recer allor fablic Ide and chose to be local Areascraph sharp for earlier \$400 Allo and chose add to to order a C note	www.creativelabs.c www.guillemate. www.toace. www.pioneeruse.c www.pioneeruse.c www.oyetrac
	The best speakers for under \$200. Period Solid performance, good price	www.bostonacoustics.c
	The only case for approxies	www.elanvital.com
,	In with the new, out with the Natural More frames per scound? Self the bost extensed flightstack exceed	www.logitech.c www.logitech.c www.chgroducts.c
۰		

		Total	\$1,81
BUDGET	BOX		
		Manufacturer	Dele

Component	Manufacturer	Prio
Matherboard	ADD EIVS	51
CPU	Celegas-A 100	510
Merory	32M8 SDRAM (generic PC100)	54
Disk Controller	Bull in UDMA/33	5
Primary Graphics	Diseased Moester Fusion	\$17
Secondary Geophics	NA	5
Hard Deam	Maidter 2000 5 758	512
CD-RDWOVD	Planeer DRU-704	\$6
Montay	Optimest VSS 15-inch	\$15 \$3
Printery Audio	Diamond Speec Ampact 590	53
Secondary Audio	NA	3
Speakirs	Construidos Souncilidades PC Works	\$5 \$1 \$1 \$1 \$1 \$1
Modera	Diamond SupraS6 internal	\$8
Networking	NA	5
Case	Elan Vital Y10-A8	51
Power Supply	Bufft-fn 235W	5
Keyboard	Lagitech Mewtouch	50
Mouse/Pointing Davice	Logitech FirstWouse Plus	51
Game Controller	CH Gemestick 3D	55

Cheep and reliable GMMS would be better
DRI, OpenGA and Glide; festest Baseline board
Good pectomer, too 35x at this pects. A 17-inch is better, though A3D and a low pece
Unbestable bargain

Not a "soft modern"	
Best upgrader's case	
Ergonomic and loss cost Great mouse and cheep Great of second controller	

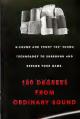
The Skinny

N/A
mountainemeth.www
N/A
www.maxtor.com
www.pioneerusa.com
www.aptiquest.com
ww.diamentimm.com
N/A

Web URL

w.diamontimm.com N/. ov.elanvital.com.to N/. www.logitech.com









WWW.AIWA.COM/MN 1-100-120-2672

#### IN SEARCH OF THE ULTIMATE GAMING MACHINE

#### **3Dfx Unveils New Chipset**

try's mother lode North American trade show. 30tx made a big splash: 30tx released initial details about its next-peneration chipset. dubbed Voodoo3, Judging from the moniker, Voodgo3 definitively marks a departure for 30tx from doing 30only parts since Voodoo3 will be an integrated 20/3D part. Voodoo3 will debut as two new produrts the Woodno? 2000 and the Voorloof 3000 The 2000 will be airmed at the mainstream PC-DFM metherheard and add-in-

board markets, while the 3000 will be targeted at the "enthusiast" market (read us). Somewhat similar to other high-performance 2D/3D perts

Voodoo3 will have dual, 32-bit ren dering pipelines. 3Dfx stated that the chipset will be able to generate more than

seven million triangles per second, which is twice the triangle performance of two Voodoo? boards As for fillrate. 3Db: is quoting figures of 366 megativels/sec for the 3000 version and 250 megatexels/sec for the 2000. Very look will sport a whorening 8.2 million transistors. about the size of the RIVA TNT-and will be manufactured using a 25 micron pancess, which should allow for the higher clock rates that Voodoo? will need to hit its

part. In the first half of 1999 an AGP 4X version will be ovalable. On the 2D side, Voodoo3 will integrate the 2D core

from Voodoo Barishee, which includes a dedicated high-speed 128-bit interface and an internal 256-bit data path-so 2D performance should be more than adequate. Other goodies include DVD playback acceleration, the ability to talk to

LCD displays, and even multiple simultaneous displays. 3Dfx has also stated that Voodoo3 will support Glide and Direct3D, OpenGL support will

arrive by about the middle of nest year We hope Voodoo3's Gide compatibility will allow the new part to play older Glide titles smoothly-something that has been a problem in past parts. In Voodoo<sup>3</sup>, 3Dfx has

once again aimed high and is seeking to define the high end of the PC 20/3D accelerator market; on paper the company has the right stuff to do this. But with worthy competition from the likes of mildia, ATI, and Regulition, the 3Dfs crow has their work out out for them. Stay tuned to 3D fromWorks. As soon as we can lay our hands on Voodoo<sup>3</sup>, we'll give you the straight done. -- Dave Salvator

#### TechWatch

#### 3D Audio Arena Crowded

here's a good bit of confusion surrounding 3D audio standards There's DirectSound3D. Creative Lab's extensions to DS3D, called EAX ferry ironmental audio extensions), and Aureal's A3D. Entering the fray is CRL, with its Sensaura package, CRL was formerly a division of EMI records but has since struck out on its own.

Like Aureal's A3D, Sensaura is based on HRTF (headrelated transfer functions). This mouthful is simply the moth that describes how your pars hear and localize positional cues. Much of what ones on involves sophisticated cross-talk cancellation, which involves moleno sure that what comes out of the left speaker is only. heard in the left ear (and the same for the right). Unlike A3D, which uses public domain work done at NASA on HRTE CRL has done its own research. The company has gone so far as to construct a number of artificial heads. with carefully modeled ears, to tweak its HRTFs to seem more realistic. CRL claims that its rear cues are better than A30's and that the vertical positional ours are

better too. If you have headphones. There are already a couple of sound chip companies that have signed up. OEM specialist ESS will be adding

Sensaura support, initially through software with its Maestro line of audio chips and later by incorporating it in hardware. With ESS's huge presence in the OEM morket. It's Blody that Sensaura will be on a lot of desistons. in the next wear Yamaha will be shipping driver support. for Sensaura in its Waveforce 192 Digital product, which should be in stores naw.

Another interesting twist is that CRL is working on virtualizing EAX, which currently requires four speakers to produce 3D audio effects. Engineers at CRL believe they can leverage their HRTF research to get decent EAX performance out of two speakers, which would minimize the need for four speakers-something that at least this user considers an annoyance. --- Loyd Case. "The game has robbed me totally of a social life and I am beginning to deeply resent anything that takes me away from playing it."



9 out of 10
- Games Mania

"Don't be surprised if you dream of stimpacks and frantically searching for ammo for your submachine gun."

8.5 out of 10
- Online Gaming Review

"Fallout 2 is undeniably entertaining. In fact, it's addictive."

\*\*\*\*

- Computer Games Online

"With a great depth of gameplay, lots of elever additions, and some really worthwhile plotlines, Fallout 2 is a terrific sequel."

- Next Generation Online
"It has been quite some

time since I have played a game that I am so enthusiastic about. Check this one out —you'll love it."

– Нарру Рирру

www.interplay.com/fallout2

T. 2: A PCGC1992CLEAR PCLE FLATTEC DAME CODES transplay Fusionfrom At signs susuant. F The Interview from Electrical Confere for First into Electrical Iron, and Sty Demon. For Common and Incl.









#### IT'S TIME YOU

Revolutionary new battlefield physics — Deformable terrain, energy weapon effects, dynamic colored lighting and flying shrapnel — intensifies the realism and excitement.

New "veterancy" feature enables units to become smarter, faster and stronger as they become battle hardened with combat exercises.

Experience the future of global war with new, high-energy weapons and defenses - Jump Jot Infantry, Later Fences, Disruptors, Hover Tanks, Tunneling APCs, The Firestorm Defense, Mechanized Battle linits and many more.

Units and many more.

Built-in waypoint system and special drop ship missions let you decide which units

to bring into battle.

More tactics of sabotage and guerilla warfare — execute covert night missions, set forest fires and destroy bridges —

with unique opportunities in three different environments.

Internet play is easier than ever with a streamined connection and an interrated

streamined connection and an integrates interface — plus new support for worldwide rankings, ladder systems and Battle Clans".



# COMMAND

SAW THE FUTURE

#### THE ONLY GAME BIGGER



OH MY GOD! SOUTH PARK IS UNDER ATTACK! THERE'S A CIANT COMET HEADING TOWARD THE TOWN AND IT'S UP TO YOU TO SAVE THEM! (YEAH, THIS GAMES GOMAN ANYE SOME PROBINC \*\* \*\*ZDI\*\* \*\* \*\*JP \*\*\*\*\*, WE GOT ANAL-PROBINC ALLENS, BIG EVIL CLOMES, DEMENTED TURKEYS, AND OF COURSE, TERRANCE AND PHILLIP IT'S THE ONLY GAME GIOGRET HANA CARTMANS BIG FAT A\*\*\*.



FOR MORE SCREENSHOTS AND INFO GO TO WWW.ACCLAIM.NET



This game is for mature audiences.

# THAN CARTMAN'S BIG. FAT. A\*\*!



















**((Igim** 

#### Step on It

#### Tweaking Some Overlooked Performance Sappers

e spend a lot of time in Computer Germina World talking about CPUs and craphics cards and their impact on game performance. Certainly the CPU and 3D accelerator (assuming you play 3D-accelerated games) are the major players in the performance equation. But there are components to consider like sound cards, USB, and your hard disk. This month, let's take a look at

#### how to get the most out of these components, too. System Memory

(Martey)

The amount of memory needed to run games is going up. The games themselves are using more memory as they add more features, more sophisticated AL and up the amount of game data that needs to be stored in memory. The rough rule of thumb for most systerns these days is that 64MB is

adequate—but 128MB is better in fact, some of the RNA TNT cards. will start paging out to hard disk like mad when a game is run if there's 64MB of RAM or loss. In this case, inefficient drivers are generating big automipmaps. which are written out to disk. There are other factors that eat

up memory at work here, too. The

stored in main memory, there's

first is AGP. Since AGP textures are



some memory in addition to nor mal game memory used for AGP data. Another factor are PCI sound case's five'll touch more on PCI

sound cards in a bit). PCI sound cearls have no onboard RAM as ISA cards did. And most don't store their MIDI wavetables in a ROM, either Instead, they store them in system memory, it's partly because the profit on sound cards is so thin that shawing 50 cents off by leaving the ROM out makes a big deal. But it's also because of a currently little-used standard called DLS (downloadable samples). In theory, a game developer

easting one in the sound card's. sample set. This would actually make for more efficient storage. However, no games I can think of actually use DLS wet. Luckily, most PCI sound cards allow you to specify how large the sample set stored in main memory should be. If you really want to be efficient. though, get one of the PCI cards that can still accept a MIDI daughtercard, like the Yamaha SW50XG,

which can be had very cheeply

these days.

could develop a custom MIDI

natch that would then replace an

#### **Disk Performance** It begins mysteriously. Games

that have run without any problents begin to nun as slow as molasses on a December day in Manitoba, Sometimes they even crash. You grown and think, neez. time to reinstall Windows again? Maybe not When's the last time you defragged your hard drive? Or

removed extraneous files? Defragmenting your hard drives when they go over about four or five percent fragmentation can speed up disk performance by a sumrising amount What's more startling is that sometimes a game will begin punning in a more stable manner when the disk has been defragged. Some cames create temporary files on the hard drive then use them during the course of gameolay. Baying a buce, uninterrupted expanse of disk space is much more efficient than having to use little nooks and crannies

Continued on page 145

#### PERFORMANCE BENCHMARKS

Sonic Impact (ESS) | 0.241%

Sound States PCI 128

After Lansing AOA 467% 70 USB Speakers

16 streamed voices through DirectSound at 22 kHz. 8 bit

16 streamed voices through DirectSound3D at 22 kHz. 8 bit

#### My Frame-Rate Sounds Terrible! As this graph shows flower is better, black not all audio

devices are created equal. Running under DirectSound30, Alter's USE speakers not a schenging 35 percent of the CPU. Duch. And while Creative has the lowest CPU usage number, its 3D audio doesn't sound especially good in two speakers.

the Live! experience.



sensational SPEAKERS



CREATIVE

#### We're unleashing a revoluti



#### on in audio.



Sound Blaster\* Live!" changes everything you know about audio. We will surround you with an Environmental Audio" sound experience so amazingly real, it has to be Live! Create new experiences with a wealth of breakthrough technology. Modify any sound source



Environmental Audio\* IN CREATIVES

#### So Real It Has To Be Live!

crystal-clear audio using the included digital inputs and outputs. Hear audio with more clarity and vibrance than you've ever heard before with hardware accelerated audio streams and multiple speaker support. Experience the ultimate in gaming with Environmental Audio" support in the coolest new games. Not only will Sound Blaster Live!" make your existing games and legacy audio sound clearer, it will be like hearing them for the first time. It's the audio thrill of a lifetime

To maximize your true surround-sound experience, add the Cambridge SoundWorks® PCWorks FourPointSurround® speaker system. It uses four discrete amplified speakers and a separate powered subwoofer to produce effective surround audio - regardless of room acoustics, player head position, or speaker placement. Now you can experience truly immersive 3D audio on your PC.



in real-time using amazing audio special

effects like flanger, pitch shifter, echo,

and distortion. Record and playback

#### Sound Blaster® Live!" features:

> Hollywood-quality re-creation with an astounding -120dB noise floor > E-muffs most powerful audio processor with 1,000+MiPS and 8-point interpolation > Digital I/O card for easy connection to music keyboards and digital audio recorders > Environmental Audio" enhances all audio content from the past, present, and future > The LivelWare program provides upgrades over life of product > Hundreds of cool new and upcoming titles with Environmental Audio" support

#### Cambridge SoundWorks® PCWorks FourPointSurround® features:

> Four compact satellite speakers and a powered subwoofer > Rear surround speakers can be placed anywhere with the included tripod stands and wall mounting accessories > in-line master volume control for all four satellite speakers and subwoofer > Delivers discrete 4-channel surround audio with Microsoft® DirectSound®3D and Creative's Environmental Audio" supported games

www.soundblaster.com/experience/

With the ability's a bevy of digit

Sound quality that impossible to match at this price! Possibly the best buy in PC audio. PC Games October 199 PCWorks" (FourPointSurn



powerful sound cold even

the Live! experience. гіле гие ехрецейсе

#### We're taking you to the ed



# ge of the universe.



# Banshee

uckle up and brace yourself for the visual ride of your life! 3D Blaster® Banshee explodes with rocket-fast 2D performance, startling 3D frame rates, and break-neck video acceleration with an absolutely out-of-this-world price. Its screaming speed comes from the 128-bit

3Dfx Voodoo Banshee" processor, which includes a 3D engine based on the Voodoo2". A full 16MB Voode of 100MHz synchronous memory and a 250MHz RAMDAC give you ultra-high resolution and millions of colors. With DirectX<sup>o</sup>, Glide<sup>o</sup>, and

3Dfx OpenGL® drivers, tuned for compatibility with the widest range of applications and games, this affordable, easy-to-install graphics accelerator is a must for every PC. It's a gamer's dream come true and it doesn't break the bank!

Graphics Blaster® RIVATNT" delivers blood-curdling performance. It's packed with workstation power whether you're a hard-core gamer or a hot-shot 3D designer. An ultra-wide, 128-bit memory

architecture synchronous memory supported by a TwiN-Texel, 32-bit color 2D/3D engine that has all the toys; bump mapping, multiple texturing, and even full-scene anti-aliasing. Whether you need to work with incredible



precision or play games with liquid-smooth speed, Graphics Blaster® RIVA TNT®

### is what you've been waiting for, 3D Blaster® Banshee features: > Complete 2D/3D graphics solution based on the new Yoodgo Banshee" chloset

from 3Dfx Interactive\* > Features a full 128-bit graphics engine and Voodoo2" 3D rendering technology > I6MB of SDRAM and 250MHz DAC deliver awe-inspiring resolutions, rock-solid refresh rates, and stunning visual quality > Boosts your PC's performance and provides compatibility with the widest range of applications and games in a single, cost effective upgrade

### Graphics Blaster® RIVA TNT® features:

>World-class 2D/3D, and video acceleration using the RIVA TNT" processor from nVIDIA® > Ultra-wide, high speed 128-bit memory architecture and TwiN-Texel 3D pipeline deliver mind-numbing speed in virtually any application > I6MB I2SMHz synchronous memory and a powerful 250MHz DAC provide incredibly high resolutions and refresh rates for brilliant, vivid images > Perfect platform for the power-user, gamer or graphic designer

www.soundblaster.com/experience/

"After mercilessly vul! 3D Blaster through its paces, we can happily and heartil



the Live! experience.

# We're putting you in the ac



# tion.



A heart-pounding cinematic experience is no longer restricted to the big screen! Building on the award-winning success of Creative's PC-DVD\*



products, PC-DVD\* Encore SX brings the digital difference right to your home. Complete with Dynam/Ckended Resolution ("Dxr"2"). Technology enhanced resolution capabilities, and Dobyh\* Digital audio for stumming picture and sound, PC-DVD\* Encore SX will knock you off your feed. Movin pilypake is just the beginning. PC-DVD\* also runs all your cool

CDs. And it can access up to 17GB of information on a DVD-ROM.

To ensure the ultimate live experience, simply add Cambridge SoundWorks\*

DeskTop Theater" 5.1 speaker system. Now you can experience rurly explosive movie theater DolyP Oigital surround sound with five independent speakers and a subwooder without the high cost of a DolyP Oigila receiver. Like any great film, words hardly do justice to the PG-DVD" Encore SX and the DeskTop Theater "SI, loseker system.

SoundworkS

DeskTop Theater\* 5.1

PC-DVD" Encore 5X features:

> DVD player for your TV - The Dxr"2 board comes with high-quality 5-video

and composite outputs to connect to your TV > DVD player for your PC - a high-definition, resolution-enhanced DVD player on your PC more of the player for your PC more of the player on your PC more of the player of the player on your PC more of the player of the player on your PC more of the player of the player on your PC more of the player of the player on your PC more of the player of the player on your PC more of the player of the player on your PC more of the player on your PC

Cambridge Sound/Norder\* DeskTop Theater\* 51, features:
Deliner move these record with Dobly Digital 51 and Dobly Surround\* addit with PC-DVTO\* or consumer DVD payers > Dobly\* Digital decoder empirities with the discrete compact assellite appelairs and authorosics. No separate recoiner required > Certasive Nutl-Speaker Surround\* (semious searce to 51, channel authorosic decoders) > NVIII 5 Sound Bissam\* Liver\*, It delivers discrete 4-channel surround saudio with Metround\* Christophond\* 2D and support devironmental Models\* present

www.soundblaster.com/experience/





the Livel experience.

# Live the experience!

# the Live! experience.

Vere changing the way you think about your gear. We call it the Livel experience. It's a totally different way to interact with your PC. It's a totally different way to interact with your PC. It's a cottally different way to interact with your local dealer Circle on extraordinary play center at an incredibly affordable price! Head on down to your local dealer and bring your PC to life TODAY!

	Product	Price	Muss	Gam	Mon	Work
AUDIO	> Sound Blaster® Live!"	\$199**				
DEGISTER	> Sound Blaster® Live!" Value	\$99 <sup>tt</sup>		•	•	
No Stell	> Sound Blaster® PCI128	\$69**		•		•
GRAPHICS	> 3D Blaster® Banshee (AGP & PCI)	599H +				
	> Graphic Blaster® RIVATNT" (AGP & PCI)	\$16911				
(Minches )	> 3D Blaster® Voodoo2" 12MB	Call Now!				
nu/SIAT	1300002					
PC-DVD	> PC-DVD" Encore \$X	\$249"			_	
	> PC-DVD" Encore Dxr"2	\$199# *		•	•	•
SPEAKERS	> DeskTop Theater 5.1	\$299**	Ĭ	•	٠	
POWers	> PCWorks FourPointSurround*	\$9911		٠		
Deskflog	> SoundWorks®	\$99tt ++	٠			•
THE COLUMN	> PCWorks"	\$49 <sup>12</sup> ***	•			•
Setureres.	* after \$30 mail-to rehate ** after \$50 mail-in rehate *** after \$30	realida rebata	•	= best	suited	



= good choice

### I've been spoiled on the performance side of things ... but recently, I booted up TRESPASSER and was shocked to see how sluggish it was.

Continued from page 136

Windows 98 comes with a nifty toni called Disk Cleanup. It will automatically remove temporary files. It also poos up a small. Exploreritie utility to help you wade through files that may be extraneous but requires a

human to make the decision to keep or delete.

### **USB (Unusually** Slow Bugger)

I received email from a reader extolling the efficiency of USB mice. Apparently, Windows 98 will sample a USB mouse at a faster rate. This reader suggested that he oot a faster frame-rate and smoother performance in OUNCE II using a USB mouse.

As it turns out. QUAKE II actually runs slightly slower with a USB mouse-at least, on CGW's reference rig. The difference is only about 1-2fps, but is consistently measurable, However, the things can appear smoother with the USB mouse as you play-particularly in areas crowded with artificial or human opponents. The higher sampling rate results in smoother panning and mouse look, so sacrificing a couple of fox is beneficial if you're not performance-impaired.

CH Products sent me the USB version of the F16 Combat Stick, I. discovered there was no difference in QUAKE II frame-rate with the analog stick versus the USB version. However, the analog stick was plupped into a PCI audio card—the game ports on these cards are often more efficient than those on older ISA sound cards. The cool thing, though, was how the stick self-condcuted when plugged into the USB port.

#### **PCI Sound Cards** it's been something of a truism

that PCI audio cards are more officent than ISA sound cards "Efficient" is something of a relative term. Most PCI audin cards attempt to do more than ISA sound cards-3D positional audio, as an example. But it's a myth that all PCI sound cards are CRI Laffirlant

We now have a tool that helps us measure 3D audio card performance. The folks at the Ziff-Dovis Bondymark Oneration have recently released Audio Wintench 99

(www.zdbop.com). Autho WinBench plays back a sound file, using multiple simultaneous channels (up to 32). It does this for both DirectSound and DirectSound 3D. I took a look at 22KHz, 8-bit audio, which is pretty characteristic of the sound used in many games (see chart 1). The results were protty starting. In the 16 channel test, the Turtle Beach Montego ate up 30 percent of the CPU in the Direct-Sound 3D test! So when you're playing a game with 3D positional audio, as much as one-third of your

CPU harsepower is used by audio. Diamond's Sonic Impact \$70. which uses the ESS Maestro 2 chip. sucks up nearly 14 percent of the CPU. The Sound Blaster Live looks to be the most efficient, at under 3

1/2 percent The Monster Sound MX300 (Vortex2) results are to be taken with a grain of salt since we were running beta drivers, but the CPU utilization in excess of 10 percent is a lot better than the original Vortex, However, the nearly 12 per-

cent number is a bit worrisome. Of course, by far the worst is the Altec Lansing ADA 70 USB speakers used without a sound card. None of the DirectSound

streams are hardware accelerated. The result is a 35-plus percent CPU utilization in DirectSound3D. So white USB speakers work fine, you might still want a sound card. How this all translates into

frame-rate is an open question. What often happens in a gameparticularly if you scale up the resolution-is that the sound begins to stutter and fail, rather than the frame-rate tanking, Still, when running FORSAKEN and INCOMING, which use positional audio, some frame-rate degradation is shown when running on a high CPU utilization card.

Never-ending Story I've been spoiled on the performance side of things. My production PC is a 350MHz Pentium II, and my game rig is a 450MHz system. But recently, I booted up TRESPASSER and was shocked to see how sluggish it was. Remember what I said a couple of months app about CPUs and

3D cards not being good enough? Whatever you may think of TRESPASSER as a game. it's something of a harbinger of the future. Every little performance-enhancing trick will become important once again.

One last point: The dynamic range in performance between the low end and the high end will only get wider Low-end systems in the future will fisely ship with "soft" audio and moderately powered 3D accelerators. while high-performance (and high-priced) carning rips will come tricked out with the latest 3D hardware and PCI audio gear. If you are budget constrained (as most of us are), it behooves you to be careful about your hardware choices, Just a few dollars more may make the difference between playable frame-rates and UNREAL-as-

MYST. ECT.'7

# LET'S OPEN UP THE MAIL BAG

after two minutes. When the game hits it, there's a long pause when it spins up again, and I often get fragged. What can I do?

There's a nifty freeware utility at: www.ncf.carleton.ca/~aa571/Software. htm#spindown

It isn't particularly easy to use-you have to add the command to your AUTOEXEC.BAT file. You may went to experiment a bit, toodon't just set it for the maximum time to spin

delp! My 32x CD-ROM drive spins down down since it may adversely affect the life of your CD-ROM drive. Where does the MSINFO32 utility you

talked about in a previous column actually live? I looked in the Windows folder and it wasn't there.

You can just use the Run command, but MSIN-FO32 actually resides in lorgogram files) common files/microsoft shared/msinfo, Also, if

you just want to run the System Configuration Utility, it's actually called MSCONFIG and lives in the 'windows\system folder.





# CPR for Your CPU

PowerLeap Serves Up a Variety of Upgrade Options

by Dave Salvator ecisions, decisions, These days, there are a bootload of upgrade paths and options to boost your machine from slowpoke to speedster. If you've got a Socket 5 (non-MMX Pentiums) or Socket 7 (non-MMX and MMX Pentiums) rig, you'd probably like to breathe new life into it in order to play the latest games at something better than five seconds per frame. Well, the news is actually good. since CPU prices-like memoryare probably at an all-time low. Couple that with 16MB 3Dfx Barshee-based boards for under \$100, and things get interesting. But every upgrade path has its pluses and minuses, and given that the Holy Grail of the best possible gerning performance is a moving target, you'd be wise to look before you leep. And speaking of leaps. PowerLeap makes a plenitude of processor upgrades to help Societ 5 and Spriget 7 machine owners resuscitate their affing systems. Our installation experience

was relatively painless, though

APPEAL: Socket 5 and Socket 7-based

PROS: Delivers a significant perfernumer boost, fairly spraightforward

COMS: Slower than Celevor; no AGP.

way're still running on a 430 class sys tern chipset; possible compatibility REPORTERED STATES OF STATES TO motherboard compatible 8/05.

depending on your motherboard that may not always be the case. Our test system, a Socket 5 Micron Millennia with a Pentium 133MHz CPU, has a Micronics M54Hi motherboard. After updating its Phoenix BIOS with Micron's own newer RIOS varsion from its Web site. the 366MHz AMD K6-2 (its latest speed grade) came up fine although it still POSTed as a Pentium 133MHz.

### Complexity

**Made Simple** What's really cool here is that PowerLean takes care of two of the most pnerous problems in swepping in a new CPU: voltage and memory clock multiplies PowerLeap puts its upgrade CPUs into an intermediary socket with an onisoard voltage regulator that autodetects the motherboard's voltage level and steps it down to 2.2 volts for the AMD chip. In addition, PowerLeap takes care of setting the 5.5 multiplier (for 66MHz system buses) to achieve the new higher speed grade. But there's a dark side. Older Intel motherboards. (found in Gateways and Delk) have a book in their BIOS that pings the CPU on power-up, and if the chip isn't penuire Intel, the

system won't boot, Thanks, Irnel ... You can get around this by installing a third-party BIOS, and PowerLeap can point you to a number of vendors that may be able to provide a compatible BIOS.

uporade to an Intel Darring 233MHz MMX although the AMD K6 2 at 366MHz will outgun it. Check with your system maker to find out which mother board you have, and decide if the

### third-party BIOS upgrade.

Punch It Now we get to the good part. The AMD K6-2 delivers an excellent performance boost over the P-133. with a better than double score in the all-important area of floatingpoint performance. We tested the system with a 16MB 3Dfc Barshee-based Diamond MonsterFusion board, an able and inexpensive performer. Turning to the 3D GameGauge results, the news is still very good, with the new CPU netting a 63 percent

improvement in performance.

Remember though, there are downsides to consider. In making the move to a new CPU rather then a new CPU/motherboard combination, you stay on a PCIonly motherboard (no AGP), and your system still has a 430-class chipset, rather than the improved 440 chipset used in Pentium II-class systems. What this means is that transfers over the PCI bus of things like textures in 3D games will likely be a good deal slower, not just because of PCI's

top-end data rate but also Powerlean is worth the bassle of a because the 430 chinsets aren't as efficient as the newer 440s with traffic-cop chores. This performance deficit prevents PowerLeap from stacking up especially well against a 333MHz Celeron-A system with a new 4408X-based motherboard.

There's also a price difference: The PowerLeap CPU comes in around \$229; a Celeron-A with a 4409X motherhood and 64MB of SDRAM will be just over \$300. You'll save \$70 with the Power-Leep, but you'll still be somewhat. performance-limited by your motherboard's pider chipset. Another point to consider: If you on the Celeron route now, you'll be able to drop in a new Katmai chip when they ship later this year.

PowerLeap does an excellent job of smolfying PC brain surgery. Still, you should check whether other upgrade alternafives may be a better fit for you and your budget. IRELY

Dave Salvator has Installed about eight gajdion CPUs in his day. His indocurrent can be trusted in these matters.

### Of course, the other notion is to PERFORMANCE BENCHMARKS WinBench 99

3D WinRench/ 3D WinMark

3D GameGauge

Annua 1938No Exelve 4592

# COMPUTER CAMING WORLD . PERRUARY, 1999

# Big Screen Excitement for Your Ears



# NAVEFORCE" 192XG

We know the sound of alien carnage splattered around the walls of a multichanneled surround sound movie theater gets your adrenal glands pumping. Now you can get that kind of intensity right out of your PC with the Yamaha WaveForce 192 XG PCI Soundcard.

3D positional audio, downloadable sounds, an advanced wavetable synthesizer, incredible sound effects, 676 sounds + 21 drum kits and easy installation make destroying entire alien

For the best in sound quality, get the WaveForce 192 XG. As for the monitor,, you're on your own

### **@YAMAHA**





civilizations a full on blast







SOUNDCARDS . MULTIMEDIA SPEAKERS . CD REWRITABLE RECORDERS . HEADPHONES





rsiege tribes • daikatana • madden nfl 99 • r com: alliance • trespasser • simcity 3000 • ali rk vengeance · inortin · heavy gear II · inters + & magic II rzone: rbird isher or ed III · wars us-e bulous: the D d des otorhea sher drakan prince erime cities · interst en re achrono shattered reality • starsleg acris blace white sim city a avy gear // • need for specu iii • myth II • ult crifice • warbirds • unreal • dark vengeance spasser • anachronox • x-com alliance • iner rsiege • virtua rally • drakan • might & magic ood 2: the chosen • shogo: mobile armor divi 99 • recoil • CREATIVE • madden n rtua comma akan power www.soundblas

oc 2 • hostile waters • might & magic VII • d

imate race rally • anachronox • fifa 99 • mig



It's a dark cave. Inside your head, you hear your heart pounding.

Damp **echoes** resonate from the slow **drip** of water. A low **rumble**.

Click — a gun is being cocked to your right.
You spin. You duck. You freeze in fear.

Fou spin. You duck. You freeze in fear.

Bullets tear past you and **ricochet** from every angle.

You can't see her, but you know exactly where she is.

Great games deserve great audio. Look for this logo or visit www.env-audio.com/listen/

So real it has to be live!



# Altec Lansing's Bus Rider

by Loyd Case hat's amazing about the ADA70s is how easily they install and how well they work Connect a wire from the left speaker to the

and plug it in (no power brick). Connect the speakers to the system with the supplied USB cable and turn on the computer Windows 98 detects the USB device, installs a set of drivers from the Windows 98 CD, and you are set-no reboot required. These speakers sound good.

somewhat and a software interface that lets you create presets. MIDI audio is supplied by the Win 98 software synth. which is based on the Roland Sound Carryas sample set But when we played MIDL it consumed about 10-15 percent of the CPU on our PII/400 test bax. Therein lies the rub. Audio Win-

Bench 99 reported CPU usage

numbers of over 60 necess for

DirectSound3D at 44.1kHz/16-bit

audio with 32 streams.

The ADA70s connect to a standatd sound card as well as the USB. Since the overall sound quality of the ADA70s is pretty good on both musical and game material, you can still enjoy the great sound of these speakers, and the performance improvement of a good PCI audio card. CSTCT

# right one, connect a single cable from the right satellite to the sub,

noise at high volume levels and

APPEAL: Good sound quality in a PROS: Clean sound, easy setup CONS: USB-only setup is a CPU box. SYSTEM REQUIREMENTS: USA port, Win 95 USB supplement or Win 98. They have very fittle ambient the tonal balance is smooth. They also have bass and treble controls that allow you to adjust the tone

PERFORMANCE BENCHMARKS (Lower is better) 3.35% MX350 (Vinter 2) 4.62%

CPU Usage With 16 Streamed Voices Playing Through... DirectSound at 22kHz, 8 bit DirectSound3D at 22kHz, B bit

**REVIEW & GRAPHICS BLASTER RIVA THT** 

# **TNT for Tightwads**

### by Loyd Case

www.aftecmm.com

p to now, you could have your graphics one of two ways: fast or cheap. Creative Labs aims to after that equation. The RIVA TNT chin

has unparalleled 3D acceleration in a single-dylp solution. With twin texturing units and AGP 2X capability, the TNT is the current hot chip on the market The board installs easily and

After Lorsing AQA 20

the control panel is fairly slick, offering nearly as much customization as the tweak central that ships with STR's TNT board. If you install the Colorific software, you need to go through some subjective calibration, but the result seems to be a crisper image overall.

Performance is a bit slower than with some of the other TNT boards we've seen, perheps because Creative seems to be behind a driver generation. For

example, there's some image corruption in the 2D menu screens of F22 ADF, something typical of first-peneration TNT drivers. Comparing Creative's TNT board to STE's similar offering, the Velocity, Creative winds up on the short end in both 2D and 3D performance in 3D GameGauge. Creative is on average 9fps

(BloMark (Ex7x32)



STR in earth game, although

Creative's performance may improve as it roys its drivers. Recause Creative was going for a price advantage over other TNT boards, there's no TV out and the only bundled software is FORSAKEN and Colorific's color matching software (including its 3Deep 3D gamma-correction package), Still, we've seen this board for as little as \$139-not

bad for a 16MB graphics accelera-

tor that can outpace a Voodoo2 board in most Direct3D and OpenGL games The bottom fine is that Creative is shipping a fairly solid TNT board at a reasonable price. Here's hoping a driver update brings the speed up to par too. [37]

APPEAL: THE performance on a budget PROS: Priced aggressively, good perfor-CONS: Not the fastest TNT board. some image quality problems, no TV out; limited burdle.

SYSTEM REQUIREMENTS: AGP Frice \$169

Milphis CA USA

PERFORMANCE BENCHMARKS 3D Windowsh 99 (Aut) Century Graphics Roser (17)

JD GerreGreen

Creative Graphics (News 230 119.7 47.8 131.4 483.0 FEE ADV COUNTY FEES AND THE STATE OF THE STA

COMPUTER CAMING WORLD • FEBRUARY 1995



### Drive yourself wild.



don't have to pay a fortune for the ultimate driving experience. www.logitech.com It's what you touch."

Go to #240 @ www.computergeming.com/infolink

steel cable drives, lets you feel the force in every fiber of your being. Every sensation Every vibration. Every gyeation. The WingMan Formula Force racing system. Now you

### Saitek's Microsoft Gambit

by Loyd Case

adding like samething out of the bruserar from Black Runner, the R4 wheel contains a dark secret. Inside that futuristic housing lies the

guts of the Microsoft Force Feedback wheel, Microsoft shipped the internal organs of its wheel to Saitek, and Saitek dropped them into its housing.

So why do the forces in the Saitek wheel feel weaker than those of the Sidewinder wheel? At first, I thought it was my imagination, but when I compared the two wheels side-by-side, the Sainek defirmely felt weaker in

The problem is that the Saitek



NEED FOR SPEED III. Go figure. APPEAL; Rans of science fiction racing gomes who wont to looks the port. wheel is huilt like the clamsy. PROS: Looks pretty coat good pedals cannily little brother to the CONS: Were obsticker small corts full oil Microsoft's sturdier offering. There SYSTEM REQUIREMENTS: Berkum 90 running Windows 85 or better

are some nice touches, such as the shifter lever and the way that the pedals seem to be angled so that they're easier to press. However, the paddle shifters are made out of a firmsy plastic

that feel like they'll break off when shifting in the heat of a tight race. And then there's the "hidden" door. You see, the R4 comes with a hex wrench so that the wheel can be easily removed or attached to the main body. The hex wrench lives in a compartment built on the back side

of the body. If you so much as

jostle the R4, the door hiding the

wrench falls off

In actual driving, the R4 works tairly well. The forces are a bit on the light side, and the flexible plastic used for the paddle shifters held up better than I'd feared. But the whole affair still seems flimsy. For \$199, one would expect a Pitle more. ICCT

### REVIEW • CREATIVE LABS 3D BLASTER BANSHEE

### **Basic Banshee** fact, it does a very credible job of

### by Loyd Case

menu titilak doen

admit it: I'm spoiled. Had I potten this board even four months ago, I would have been in 3D graphics ecstasy. Now, I find myself vawning. Don't get me wrong, 30fx's Banshee chip is no Voodoo Rush. In

Glide (3Dfe-specific) games However, QUAKE and QUAKE IL. both OpenGi, titles, seem to run slower here than on TNT or even Voodoo<sup>2</sup>. Slower QUAKE II performance is understandable since that title uses multitecturing, and the single-texture unit on the Banshee chip has to use two rendering

running most current Direct3D and

passes instead. But given Banshee's slightly higher dock rate, you would certainly expect GL DUAKE to be faster on the Ranshee than on a Vondoo2. And you'd be wrong. The Direct3D games in 3D

GameGauge trailed the TNT scores by only a bit, but the Banshee's mediocre GL performance pulled down its over-

all 3D GameGauge score. Barshee does turn out to be a very credible 20 performed

trailing TNT performance only slightly at 1024x768x32 bit color. Like the Graphics Blaster TNT this Iteration of the 3D Blaster ships with Colorific's color-management and gamma-correction software. Creative's control panel is nicely thought out and even has a clockrate tweak. Beware the memory refresh control though, I changed it to one clock cyde and had Instant Windows lock Orldly, cranking up the clock rate had zero.

effect on 3D GameGauge At a little over \$100 libe average street price seems to be around \$115), the 16MB 3D Blaster Banshee is a decent budpet board. But with Diamond's Banshee board holding the high ground in terms of performance and the Guillemot Phoenix being the pore champ. Creative's board may find itself in no-man's land at a reasonable price. Here's hoping a driver update brings the speed

up to par top. (3727)



2D GarreGeuse

3D Windwich 59 (192x766x16) 395

7.7 111.0 54.5

TOTAL CONTRACTOR CONTR

45.3 190.4 71.6 31.6 31.6

MicMark (1028x768x32)

CONS: Not the Essest, nor the cheapest no softwore bundle, slow mulation REQUIREMENTS: Pendum 90 or

APPEAL: Barbett-mirried users broken

to run Direct3D:, OpenGL, and 3Dfe-spe-

PROS: Fast single-texturing perfor-

# SPEED KILLS

ATI RAGE FURY. So fast, you won't know what hit you.





# ATI RAGE FURY

- True 128-bit 3D and 2D graphics engine
- A massive 32MB of memory for realistic 3D gameplay, life-like textures and resolutions up to 1920x1200
- Experience 3D game action with true color performance at 1024x768
- Integrated hardware
   DVD for incredible video
   playback
- Designed for DirectX
   5.0/6.0 and OpenGL
   with full ICD
- Supports TV-out for big screen gaming and ATI-TV Wonder the add-on TV tuner that turns your PC into a TV



The New Breed of Speed.

http://www.atitech.com/ad/cgw

G Copyright 1996, ATT Technologies line. ATT, EAGE FURY and ATT-TV Wonder are under review and/or registered studentials of ATT Technologies line. Products may not be sourchy as shown

# THIS AIN'T NO SKINS GAME.



# LF WITH XTTITUDE



How many times have you secretly wanted to drive the ball at the idiot playing in front of Y011!



Have you ever put a silent curse on your opponent's next shot?

On the mystical Mojo Bay Country Club, you can curse your rival's shots and watch them corkscrew into the ribs of a 50foot skeleten, or beamer shark-milested waters.



have you ever felt like just blowing up your opponent with a magic exploding ball?

liwite your fiercest adversary to a game of Death Matchplay on the Dimension X Battlefield-and live the dream!





www.LinksExtreme.com

ACCESS

# **Clumsy Chameleon**

by Dave Salvator

challenge Saitek took on in creatbere's a maxim that human interface designers of all stripes will tell you. "It's easy to make it hard, and hard to make it easy." That would seem to be the well. The problem in trying to

APPEAL: Garners Invience for that methical all-in-one name controller PROS: Vesatile, solid programming front-end, good for large-bands, endeav-ors to be all things to all garners CONS: Winds up being so-so ce all froms, too many design trade-offs to list REQUIREMENTS: Sound cord with a

ing its new Cyborg 3D gamepad controller. This add-looking fellow tries to be a flight, driving, and arcade controller all wrapped up in one. Oh yeah, it also tries to be your next 3D shooter controller as cover so many bases is the number of trade-offs you wind up making to accommodate these different genres. Cyborg 3D does a pretty good job with driving and

unless you want to come out with a toe-tag. To test this aury out. I took it for a spin through QUAKE IL NEED FOR SPEED IL NBA LINE 99, and WARREDS 2.0. To switch between these different genres. Cyborg has three modes: Flying, Driving, and Arcade, which enable/disable different parts of the controller. Programming this controller is

straightforward to install and use.

Installation couldn't be easier.

Plug the modern into an open USB

port, feed your computer one driver

floorey disk, and you're done, sens,

reboot. The MultiModern USB uses

able to connect to any ISP support-

the V90 standard, and should be

sports titles, but don't take this

thing into a QUAKE II DeathMatch

fairly straightforward. thanks to Saitek's Command Centre (when will those British learn to spell ?) programming front-end.

In QUAKE IL the news is not good. Yes you can program Cyborg 3D to free-look, but if you're someone used to dealing death with the classic keyboard/mouse combo, you'd be looking at some serious learning curve before you'd ever be anything but cannon fodder. In NPS III. the news gets better. The controller has a "steering wheel" controller

that's more like a phone dial that snaps back to center But using that along with Cyborg's "joystick" for acceleration/braking. I was able to be fairly competitive. though I was missing the more familiar wheel-with-pedals config In NBA LIVE '99, Cyborg was passable, but because the game needs so many buttons for its warred

functions. I found myself

running out of but-

tons for my right hand (the left hand was handling D-pad chares). But because Cyborg uses so many axes, you can only have one attached to your system. So much for hot-seating.

If you're a road dog type who spends a lot of time travelling and your lanton has a joystick port (or USB). Cyborg might be a handy allin-control, though it might be a bit bulky to schlep in your leptop beg. Unless you're hell-bent to have only one controller, Cybora 3D's trade-offs for the sake of versatility make it a so-so controller across the board AGT

#### **REVIEW • MULTITECH MULTIMODEM USB**

### by Dave Salvator

etween UD resource conalways been the decaded well-wart flicts and cantankerous power supply. Enter MuliTech's BIOS issues found with MultiModem USB, an external V.90 some internal moderns. (the new 56K standard) modern esternal modems have that connects via USB, where the always seemed much more modern sends its data, and get this, where it draws its power, elimineting the well-wart completely

APPEAL: Garners looking for an enter-

ral SEK V.90 modern. PROS: Painless installation on wall-wart competitively priced; solid performance CONS: Only 56K; no ping-time advantear over conventional modern REQUIREMENTS: One free USB port

ing that standard, Because V.90 is the new single 56K standard, most ISPs are migrating to it. For testing purposes, I connected to Mindspring, a nationwide ISP that supports both X2 and V90. This seemed like it would be

a good test since the

Eat It, Wall-Wart But one downside to externals has MultiModern

uses a Lucent chipset.

which formerly supported the KS6Flex standard, Since Mindspring was an XZ ISP before adding V.90 support. I thought this combination might yield some compatibility gitch. It didn't. In fact, I consistently got connect speeds of 45. Whiteless, which is pretty good A USR Sportster external X2 modem making the same connection typically connected at 50Kbits/sec. I was boxen that MultiModem's USB connection

might yield lower ping times then serial port-connected external modems. It didn't, in ping tests to Mindspring's terminal server, the first hon you on through in connecting to the Internet. MultiModem's ping times were in

the 90-100ms range, typical of 56K modems of

all strings MultiTech's USB madem offers comparable performance to other 56K moderns on the market, with the added benefit of its having no

wall-wart, not to mention USB's dynamic disconnect/reconnect feature. It's priced well versus other external 56K offerings, so if you're current modern is running out of gas and you're looking to move up. 3 to a 56K modern, take a look at the MultiModem USB (333)

# Yamaha Speakers Sound Better, Even On Paper.

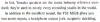




With exclusive Yamaha Active Servo Technology IYST) and sprace cone architecture, the Yamaha YST-MS28 Speaker System floods your senses with vivid, speciacular sound that invigorates games and music

The subwoofer and satellite speakers use superior Yamaha YST technology to produce deep, rumbling bess that no other speakers can mutch, it brings the menacing approach of a T-Rex to life with frightening conviction

At the heart of the compact, adjustable satellite speakers, somer comes deliver briffiant blebs capable of belting out screaming guitar solos



purposient controls and total communitelity with all computers and game systems Your ultimate computer system is incomplete without Yamaha surakers. And you can own the

YST-MS28 for under \$80, or choose any of Yamsha's other award-winning speakers and subwonfers. Recause as good as thry sound on paper, hearing them is an absolute blast?















# A NIGHT OUT WITH THE BOYS



WILL NEVER BE THE SAME AGAIN...



# SETTLERS°



That's because it'll be spent in the company of a captain, a farance, an archer, a merchant, a priest, a swordsman, a miner, a spearman, a woodcutter. In fact, 150 unique and stunning characters that populate the addictive world of

combut and growth you'll become completely immersed with your new found friends. Meet the chillenge of the gods on screen, over LAN or internet play.



AVAILABLE NOW CALL 1-800-933-BYTE

Blue Byte Software • 5140 North Megar • Soile FV-230 • Austin • TX 75259
Technical Medige (57) 243 1990 • Part 5713 201 1866
Technical Medige (57) 243 1990 • Part 5713 201 1866
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medige (57) 243 1990 • Part 5713 201 1867
Technical Medical Med



### THE MOST TRUSTED REVIEWS FOR 17 YEARS







mt		
This Month CGW Edito	rs' Choice Games Are Indic	
iame	Rating	Pag
01 Airborne	会会长大大	22
adistone Chronicles	ar de de de de	21
undet	育育育育大	22
aesar's palace Slots	****	24
lue: Murder at Boddy Mansion	***	24
elta Force	自自自自主	17
nerry infestation	会会会会会	23
uropean Air War	<b>育育育育大</b>	19
silout il	食食食食食	21
ighter Pilot	<b>育育大务长</b>	19
ly Hunter	****	19
reespace: Stest Threat	***	20
he Garne of Life	会会会大大	24
rim Fandango	At At At At At A	20
alf-Life	Section At Market	16
andwar	京京京吉米	20
cyle Board Garres	****	24
repardy	会会会会会	24
KND 2	<b>京在台</b> 本本	23
ode Russer 2	<b>京京京大大</b>	24
ands of Magic Special Edition	育育資金大	24
EA Live 99	N X X X X X	21
18, 99	At No his No As	22
utbust	育育育者者	24
lone Crazy	****	19
rephecy Gold	· · · · · · · · · · · · · · · · · · ·	20
rd Baron 3D	人 大 全 杂 头	20
entinel Returns	食食食食食	24
n	京京 * * *	17.
sace Bannies Must Die	京京京大大	18
tar Wers Droktworks	育育育育者	24
glaser	***	180

### The Game Genres

Action Games that emphasaes too Adventure Games that require you to solve passes to move through a story line. Chanical Parelle Cincins my old standbys such as Class and Monorcer Public garres emphases gamest to follow a story Rate Playing A subset of advertise

VE Enseball 2000

genes, these stress character develop tends to be large, the glot less linear Simulations Highly redictic games from a first person rempective uncluding Sister. sine and space simulations. Sports/Sacing A broad game encome piccing Action sports games such as NM Use stategic sports games, such 25 FPS FOOTBALL and daying comes.

\*\*\*\*

such as CART PRECISON BACKS Strategy Problem-salving and planning are the keys hern. These gomes emphasize resource and edi-management, includes conflict based on Fland Service sames as net is construction programs like SINDITY Were ween A subset of storings games, their re-exists Middled conflicts from a command perspective. They may be tech

### How Do We Rate?

\*\*\* Outstanding The rare game that gets it all right. A must-play experience.

\*\*\*\* Very Good Worthy of your firme and money, but there are drawbacks

食食食食素 Average fitter an ambitious design with major flaws, or simply vanifla.

riew only finished products, not prerelease versions. The ratings are as fol 食食食食素 play value, poorly conceived, or just another clone.

cal operational or studies

\*\*\* Abysmal The rare game Weak Seriously lacking in that gets it all wrong.

ROBERTA WILLIAMS'

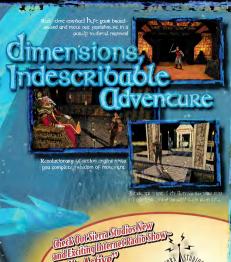
# KING'S QUEST

MASK OF ETERNITY

"One of the year's biggest and most exciting new adventure games."

-Computer Zaming World







Other houses have sworth, chaintener, and vaporities in food with their meastrain sements. In Oldersoft, any via yet it is yet. All now has the shiftly to process his own forts and How his nomines every! It is a years had youing needed the his jurily as style had Soldison Hower to making Soldison Hower — the only howerage must be time and Marchan taxes and known. Fact procession. No take game has it and health, we're not sere any other game would worker.



# New Killer in Town

HALF-LIFF Is the Best, Scariest First-Person Shooter Since DOOM



by Jeff Green

I you were expecting the A PRICE AND FROM an, any gimes PROS: Avvisore:

storyline, interes. super prayer; atmospheric music and sound effects: grynntye lead

CONS: Some multiplayer lag and undefinest soven is awfully dark at times took of elefform-style mast SAVESTO SOME DATION. DEFECUENCY Promotion REDUREMENTS Weston 9598 4 D, Pessium 133, 24NB RAM, 2x CD-FIDM: E42e480 SVGA high-color (16-bit) display Windows compatible

3D SUPPORT: OpenG, or Directio MISTINI AVED SHEDGET LAN /2-8

Prev 548.99

reasoned voices of CGW to douse the flames of the HALF-LIFE home, forget about it. We're about to make it worse. So let's get this over with up front, and then we'll calm down and get to the details.

Everything you've heard, everything you've hoped for--it's all true, HALF-LIFE, Valve Software's highly anticipated first-person

shooter, is not just one of the best games of the year. It's one of the best games of any year, an instant classic that is miles better than any of its immediate competition, and-in its single player form-is. the best shooter since the original DOOM, Plus, despite the fact that it's "just" a shorter, BALE-LIFE ntovides one of the best examples. ever of how to present an interactive movie-and a great scary movie at that. Here Comes Your Man

HALF-LIFE makes its briffiance apparent from the moment you boot the game, Instead of the usual lame out-scene that looks nothing like the game you're about to play fremember QUAKE 87), you are though immediately into the gameworld. It's an illusion that's never shattered. No cut-scenes, no level "briefing" screens, no fragcount screens, no map. As in a real movie, the intention is to immerse you in the story. Other shooters. have done this, too, of course-JEDI KNIGHT and Bungle's MARATHON series stand out as great examples-but no one before has carried it to this

extreme, or pulled it off so well. As the opening credits roll, you find yourself on a transit car. descending deeper and deeper into the covernous Black Mesa Federal

Research Facility and learning details of the name's stording You are Gordon Freeman, a 27-year-old Ph.D. in theoretical obssics, now employed as a research associate at Black Mesa's "Anomalous Materials Laboratory," After you exit the tram, the many scientists roaming the halls unce you to make your way toward the lab to assist in some kind of classified exceptment.

Once the experiment begins. however catastrophe strikes, as a series of massive explosions signals the opening of a portal to an allen world. With the Research Facility now half destroyed and in utter chaos, you must make your way to the surface, avoiding the aliens who have transported inas well as the government troops assigned to "contain" the problem.

### Gouge Away

Levels-at least as we've come to know them-don't really exist in HALF-LIFE, Instead the game comprises a series of titled chepters, each of which groups a number of minilevels into one cohesive unit. As a result, rather than forcing you to wait minutes for a huge level to load. He same games we could mention (SM) but won't OWLLOUT 2), HALF-LIFE loads just a portion of the chapter at a time, as you play it.

Aesthetically, it breaks the game into a number of settings, each one different from the next, each one offering a changing set of challenges and obstacles, in "On a Rail\* you'll need to dodge a series of threats while riding a tram, in "Apprehension" you'll need to swim franticelly through sunken rooms without drowning or getting eaten by giant alien fish; in Surface Tension, perhans the game's best chanter, you'll have to fight an army of outrageously intelligent had govs through a series of out door settings

				t Three Months
Game	Publisher	Month	Page	CGW Rating
Deathtrap Durgeon	Eldos Interactivo	December	351	MARKET .
Get Medievel Gen: Enter the Geduo	Morelith Midway Home Entertainment	November December	282 356	
Heart of Darkness	Interplay	Neverber	356 269	
Incorning	Xicat	Neverber	264	All provide 開発をWeb 1
Klingen Henor Guard	MicroFrose	Jacusty	316	
Martid Keerbet 4	Midney	November	277	MASS WHEN
NAM Ouske II: Ground Zero	GT Interactive Activation	November	28D 306	WARAP Makedon
Rainbow Six	Red Stern Enterteinment	December	312	REAL
Return Fire 2	Ripcord Garnes	Jacobs .	322	8686
Reverge of Arcade: Golden Edition	Microsoft	December	356	
Shago	Monelith Productions	January	312	
Statosphere	Ripcord Garnes	December	352	
Tresspossor: Jurassic Park Urban Assault	Electronic Arts Microsoft	January December	318 346	
Orban Assault	Microsoft	December	346	HWAKE
Final Factory VII	B dos	Movember	286	· · · · · · · · · · · · · · · · · · ·
Heaplere	Infogrames Entertainment	January	336	
Morpheus Rage of Mages	Pirzeha Interaction Monolith Productions	January	334	CONTRACTOR OF THE PARTY OF THE
rage or reages	remoth Productions	Livery	338	PORTINA
Creatures 2	Mindscape	January	364	<b>产业技术</b> 员
Jessels It The Ultimate Challenge	Heffmann and Associates	Navember	328	KWACKK
Leoney Tares Animated Against Noticet	SouthPeak Interactive MVP Software	December December	625	的商品有用 前向用品用
Play This Play That	Patch Freducts	December	425	Anna
and the same of th				
Ares Rising Combet Flight Simulator	Imagine Studios Microsoft	December	376 330	20 0 0 0 A
F-16 Multipole Fighter	Novelogic	Ansary	326	REBAA
Fighter Ace 1.5	Microsoft	December	373	KRNAA
IAP	Jene's Combat Sers	December	370	RRRRA
IF/A-185 Carrier Strike Fighter Independence War	Interactive Magic	December	364 358	安良 A A A
Jerfishter: Full Burn	Infogrames Minyon Station/Interplay	December November	358	0.0000
MrG-29 Fukrum	Nevelous	January	326	66666
Pro Pilet	Densenix	hemory	332	60000
Spearhead	Interactive Megic	December	376	政府共有金
Total Air Wer	DIDAtefogrames	December	361	WEERA
Warterds 2.01	Interactive Mirgic	Docember	382	SERRE
3D Harting: Trophy Whitetzil	Mecrifien Computer Publishing	November	299	* 86698A
Fox Sports Golf	Fax Sports Interactive	November	290	
Feern Office Feathall Galden Tee Golf	Selecismic Software Incredible Technologies	Arruary December	348	Ronds
Grand Prix Learning	Siena Sports	becember	360	
Madden '50	EA Sports	house	346	REBEA
Motocross Madness	Microsoft	December	3168	W455 RW
NCAA Footbell 99	EA Sports	Armary	350	
Need for Speed III	EA Sports	tensory	342	
NFL Garreday 99 Brd lee Bacar	969 Studios/Serry	December	386	
Figer Woods 99	Ubi Soft EA Sports	December	394	<b>和</b> 與在市内 和和自从大
Age of Empires: Rise of Rome Axis & Allies	Microsoft Western Indepentive	Intrary '/	354 358	WENN.
Carstr III	Nestro Interactive Sienta	Jerusey Jerusey	358 352	# # # # # # # # # # # # # # # # # # #
Commenday: Behind Energy Lines	Eidas Interaction	December	416	
Cybersterin 2	Sierra	Nevember	270	
Dune 2000	Westwood Studios	December	406	
Emergency: Fighters for Life	WexedWorks	December	420	
Entrepeneur Corporate Expansion Krights & Merchants	Stardock Systems Interactive Massic	Jeruary	360	
People's General	Interactive Magic	January December	356 418	
Police Opent: SWAT 2	Sierra	Neverber	314	
Total Amihilation, Sattle Tactics	Cavedog	December	620	
War Among the Mohawk	Errofee Interactive	Intery	362	· · · · · · · · · · · · · · · · · · ·
War Among the Mohawk Wargames	Empire Interactive MGM interactive			100年をから



Thanks to creative level design. you almost never feel that you're doing the same thing twice

**Wave of Mutilation** Adding hupely to HALF-LIFE's

sense of terror are the aliens: a horrifying collection of gurgling grotesqueries Particular favorites Include the Houndeyes, whimpering, headless beasts that emit a destructive shock wave, the Barnacies, which hand from cellings like rope and suck you up with feroclous speed if you get too close, and the Bullsquids which



pit caustic acid from

But it's a testament to the pame's creative genius that the creediest. scarlest monsters are also the tiniest and least fearsome in appearance: those infernal Headcrabs Although they cause only minimal damage and are easily killed, they prove a constant menare, and every time one lurges at

you unexpectedly from some hidden comer it is quaranteed to scare the crap out of you. The aliens are scare but the human enemies are your toughest opponents. The commandos and ninjatke assassins behave with such intelligence that at times you'll almost feel as if you're

deathmatching with friends HALF-LIFE provides a satisfying arsenal for your kiffing pleasure. Standard shoot-'em-up weapons. like the powerful 357 Magnum and the double-barreled shotous. mix it up with cooler items fike satchel charges and the crossbow. which offers a vitally important

sniper scope and delivers a righteous, satisfying thunk as it. hits its target. The most original weaponry are the two alien creations-the Hivehand, which fires a spray of bugs that track targets around corners; and the Snark, small living creatures that will attack any thing they get near (including you, if you don't thrown them (ar enough).

I'm Amazed

Although HALF-LIFF uses the QUAKE engine as its base. Valve reportedly rewrote about 70 percent of the code, and it shows. It

might not be as "beautful" as UNREAL but it is an awesome looking game nevertheless, especially with 3D acceleration. The environment feels alive, thanks to a number of great scripted events that trigger as you approach them. The atmospheric sound effects and voice work are equally great and add to the feeling of being knee-

deep in a living nightmare. Overall, it's not one thing that makes HALF-LIFE creek, it's the sum of all the parts—the extraordinary attention to detail. There are sequences in the game. Mor those of a great horror movie, that you'll be dying to talk about with your friends, scenes that you'll remember years from now watching the scientists plunging down the broken elevator, petting attacked by a Headcrab for the first time,

swipes of the three-

tentacled monster.

Exteriors to the

Jeff Green, when not having avoiding the feroclous

husbed footsteds of assassins as they ruthlessly hunt you down. We

could go on and on You can find things to guibble about if you really want to-the screen is kind of dark at times. there's an awful lot of platformstyle jumping, the multiplayer experience can be erratic-but who cares with a game this great? Simply put, this is the gaming event of the season, and if you care at all about names you don't want to miss it. HALF-LIFF positively. radiates with cool. [CCI27]

nightmares about Headcrabs, is Josino at NRA LIVE 99 and still trying to make his way out of the Previlled Formet in CRIM FAMPANICO

# Have You Driven An Urban Assault Vehicle Lately?







### FLAMETHROWER

### SECURE CONTROL SYSTEM with realtime

fractal encryption keeps your datalink untraceable and unbreakable. Drive with confidence.

### 2X RAOAR GUIDEO MISSILE I AUNCHER

### FUSION POWER PLANT delivers smooth running power at temperatures up to 700 degrees Kelvin



FUSIONBEAM

ARMOR FACINGS of renewable ceramic polymers protect your vehicle from adverse conditions such as plasma bats and autocannon fire.

ELECTROMAGNETIC REPULSOR DRIVE with

gyrostabilization and inertial dampers goes from 0 to 180km/h in 0.0014 seconds

## The Argus Overlord

Armor Trend netmagazine's 2219 Assault Vehicle of the Year









All Norskin Remotely Publish Vehicles ship with sersion 95 of Battel-leiper, Nation's ward-winning operating system. Some vehicles and ready as shown All performance specifications given for ensecurationed whiteles in 12 of cytes-leiper in 10 of 10 of





# Sinful Displeasure

Interminable Load Times and Bugs Are SIN's Greatest Transgression



SIN's story is pretty elementary thero John R. Blade must stop evil Elexis Sinclair from destroying Freeport City and turning humans into mutantsh But Ritual pulls it off fairly well with unice-overs and interstitial out-scenes using the in-game engine. At times, the wrice acting is invenile and the dialogue and story somewhat amateurish, but the whole ensemble works to propel the story forward.

**Devilish Design** Str/s first few levels take place in mundane environments; a bank, an abandoned housing project, a construction yard,

and a subway station. However the levels recorressively become more interesting—both in looks and mission quals. The bank gives way to a high-security underpround lab leading, in turn, to a massive and elaborate sewer system. Later on, you'll journey to a dam, an oil rig, an undersea base, and then venture onto the ocean

floor itself. The later levels mally

are gargeous, especially the beautiful and realistic press levels The level design is smart and challenging with good enemy placement and some clever puzzies. The levels are also highly interactive-nearly all name chiects are destructible or interactive in some way You can blow up desks chairs windows potted niants, bookshelves, and many other items including your run-ofthe-mill crates, barrels, and boxes. You can also turn on faucets, flush toilets, and even fiddle with an ATM machine. Active computer terminals also dot all the levels, and many of the game's puzzles revolve around finding the appropriate terminal and accomplishing a task, such as disarming alarms or runs, organize locked doors transmitting a computer virus, or scan-

ning weird biological materials. Whether the mission calls for stealth or surgical action, most missions have clear objectives and don't necessarily boil down to key hunting. In a few levels you have to avoid detection and recover secret chemicals, Proceed with stealth and you'll encounter little resistance. If you're not cautious. wor'll face more and deadler.

APPEAL Forgiving sheatur firm looking for reolutionary if not rivolatoriary

be story and leads correlement each other nice multiplayer maps. CONS: Long fould times; bugs used even in patched suntencome levels the confusing, only a fine impressive weapons, DIFFICULTY Assemblished LEQUISIONENTS: Profilm 166 Windows 95/98 or NT 4.0, 32M8 PAN or AGP visito card with 2M8 PAM, 100 percent Sound Blaster-comparities

3D SUPPORT: OpenGL MINTEL AVER SUPPORT LAN Page \$69.85

### by Elliott Chin

or all the industry's talk of a plut of QUAKE clones. the dreaded delune of mediocrity hasn't happened. There have been a few dogs, but for the most part, the first-person perre is really starting to

come alive Synon. BLOGO 2, HALF-LIFEthese are all good or excellent games with their own compelling style and a welcome blend of story and action. To that croup you could almost add SIN ... If it weren't for the bugs. It's sad that Ritual, the compeny behind QUAKE MISSION PACK 1: SCOURGE OF ARMAGON, spent two

years crafting SIN only to see it concled by bugs that should have been caught in testing



enemies. In other levels you'll have to blast through a well-quarded area to shut off a pumping system. or destroy a shipment of danger-

our chamicals The only problem with the game's levels occurs later in the game. Whereas the earlier levels are laid out with more direct routes to your objectives or exits, later levels are harder to novigate. The ocean floor level, despite its beauty was especially wrong because I had no idea where to on. The textures all blended together to create an unfamiliar surrounding, and I found myself oping around in circles.

### Pea Shooters and

**Bigger Pea Shooters** The weapons include the traditional shotour and rocket launcher as well as the more exotic sniper rifle and quantum destabilizer. The magnum is your default weapon, and the shotour. is powerful, albeit unoriginal. The martine oun, chale oun, orenade launches and rocket launcher are all similar to their OUNCE II cousins. except that they look ricer and have better aritmetion. The later weapons, though, such as the spear our, sniper rifle, and ournturn destabilizes are very cool. interestingly since the manual doesn't tell you about all the weapons in the game, I never really figured out what each wasness was ralled.





I found nearly all the weapons to be too week. It sometimes took me two hits with the sniper rifle to

kill a grenade-lobbling soldier and three hits to kill a cyborg, And these were all headshots. The chain gun, likewise, took a while to gun down a low-level count 1 can understand why early weapons would be week, but even the later. weapons lacked punch

The body specific damage system works well, making you think more during combat, and looks coal. You can shoot an enemy in the head and watch his skull explode as blood sprays onto the wall behind him. Shooting an gnemy in the knee will buckle his legs. Of course, different body parts. also suffer more damage. One or two bend shots kill a solcker but

that same soldier will take half a dozen shots to the out before going down.

The enemies in SW aren't too excifing, although they are pretty challenging to fight. Most are humans though there are more mutants and

cyborgs deeper into the game. It would have been more exciting if more mutants appeared earlier to break up the monotony of your human copponents.

In multipley, SIM is pretty fun, with well-done doubmatch levels that are perfected for

arrything from one-on-one matches to large, multiple player bloodboths. The weepons don't seem too week in multipley, and the body specific damage system doesn't imbalance deethmetch. The Ultimate Sin

So far. SN sounds like a pretty good game with a few stumbles in weapons and monsters. However, what really cripple the come are the bugs: The first episode's boss doesn't move in the final fight. there are some sound problems. and level lead-times are berran. dous. Some levels even load twice. I tried playing the game without

the patch, but couldn't get through e-the load times were just too long, Activision did produce a eatch that fixes these and other bucs, but the load times still felt long even when reloading the

Even after the patch, I noticed some serious burs. In one subway level, the mutant boss falled to break a hole through a wall, leaving me trapped in the level with no way to process to the next state. In the Water Works Part 2 Iruel, the hoss monsters. Fon and Peon never showed up. Again, I couldn't advance any further through the came. I reloaded a previous saved came and cheated my way around this bug, but if I hadn't, the game would have been over

SIN soft a revolutionary jump in 3D shooters, but it does add

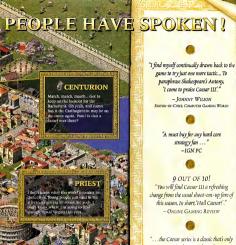


increased interactivity more

thoughtful mission and level design, and a storyline that integrates nicely with the missions SIV really is two games Without the patch, long load times and other bugs make it only worth your time if you're a hard-core shooter fanc with the patch, it's a lot more fun--if not perfect--but some problems persisting despite the patch. If you can download the 18M8 patch and aren't expecting a giant leag in storytelling or gameplay, give SIN a try. GGTT

Elliott Chin is the Previews Editor at GameSpot and likes shooting things-a lot.





BUILD A BETTER ROME

getting better with age." - GAMECENTER





Download the demo At www.sierrastudios.com or www.caesar3.com

Impressions

### Sim Meets Shooter

Despite Taking Hits, DELTA FORCE Secures Its Primary Objective

#### by Raphael Liberatore

m rom the get-og. DELTA FORCE scores a direct hit. With 40 out-wrendling. real-world missions, DELTA FORCE is a realistic shooter modeled after the commando ops of the highly

secretive U.S. Army Special Forces Operational Detachment, aka Delta Force. While this game has much to offer Novalooic. dodged 30fe-accelerated technology, online for year! Space 3 graphics-resulting in a less than crisp gameworld. But this game is still a blast.

The keyboard configurations are a snap fremember to use the template provided in the box). After picking an after egg select one of five Third World campaigns. You'll



PROS: Good sed

intriface, que et multipleure fun CONS: Fig by system requirements, no graphics, lack of command and control CHITICULTY: Intermediate

REQUIREMENTS: Neetion 166 NWX Windows 95/98NT 32MB RAM 120MB hand-draw space, &a CD-RCM, Devold compatible sound creds, 14.4 modern for TO SUPPORT NAME MULTIPLAYER SUPPORT: Setal

connection, modern (2 players) (2-32 players), LAN (2-16), 1 CD

ing a small patrol with a knife helps to avoid better taxcet



conduct counterterrorist and **Rescue Aborted** 

hastage rescue, drug interdiction. special reconnaissance, and directaction operations. The missions are more dynamic than linear You can choose special reconnessance ous in the Mirkfle East direct action ons in Africa, or eliminate a ring. cartel in South America. The level of difficulty with each campains nets harder, and some missions are virtually impossible to finish

DELTA FORCE scores with its realistic arsenal of weapons and equipment. You'll spon have a steady favorite (be it versatile M4, muscle-bound LAW, Ramboesque SAW 249 Ramet 50 caliber spines rifle). The M4 and other spiner rifles are mounted with scopes for

otherwise malistic game, omitting both command and control and fire support elements is notable You can play in a first or third person perspective, and from a tactical standpoint, the game could almost be considered a sim. Use of stealth, fire, movement, close-

combat techniques. ballistic trajectories, and Al reactions are all part of the realistic combat experience, However, most gamers will play DELTA FORCE as a straightforward shooter since it does nothing to teach you these tactics.

Multiplayer is a blast with Novelogic's free NoveWorld servers. Play Capture the Flag, King of the HML or deathmatch with up to 32 blood-crazed players

QUAKE flends will enjoy the mayhem of searching and destroying other operatives, while the more military minded will peir off into teams for co-op play.

interdiction at

longer ranges.

but watch out

for lag when

using the sniper mode in

multiplayer.

You'll also

handy GPS

tracking device

for better land

navioation and

waypoint

status.

Combat starts when your team

of four to six operatives (divided

into three teams) is inserted into

dusk, or dawn. In DELTA FORCE you

the Area of Operation at might.

can't communicate with other

poeratives. No matter how com-

pley the mission. SEALs, Ranners,

or Marines will not bust onto the

scene to cover your butt. For an

want the

**Myopic Night-Vision** 

Goggles

Unfortunately, the voxel graphic engine comes up wanting. Blurred troop pixels mar what could be a very enjoyable experience. In one mission I found myself accidentally shooting fellow operatives because their images were unrecognizable. Novalggic is working on a 3Dfs natch, but it will only affect the polygonal buildings and objects. Until then, your computer will suffer with slower frame ratesman with the turbo mode turned on. On the plus side, the terrain

and 3D ambient sounds are good. DELTA FORCE has hefty CPU and RAM requirements, and the voxel graphics leave plenty to the imagination. If you have a fast machine. eniov combat action, and don't mind the blurry images, DELTA FORCE is as close to the real thing:

as you can get GGO Raphael Liberatore is a former U.S. Army Special Forces soldler who is currently enjoying an equally challenging stint as "Mr. Mom."





### EPIC BATTLES OF STRATEGY AND HONOR



Returning to her besieged homeland, Katherine, Queen of Enroth, must rally Erathia's armies in a light for survival. In a savage series of Battles for control of Erathia, you command the land's greatest heroes and fiercest creatures in Queen Katherine's struggle to restore her family's reign, and rid the land of enemies.

- Over 20 campaign scenarios told from 3 different perspectives, plus dozens of custom stand alone, and multiplayer maps.
- Enhanced multiplayer capabilities allow you to plan and implement detailed combat and exploration strategies.
- Detailed character development with 16 new Heroes, and hundreds of spells, skills and artifacts.
- More than 100 unique combat units all 3D-rendered in High color detail.









### Troma Raider

### This TOMB RAIDER Clone Sports a B-movie Sense of Humor and Style

#### by Mark Clarkson

hey have it all: Young and beautiful, Allison Huxtor is a budding rodeo star; her sister Jocelyn seemingly destined to become the next Tammy Wynette. (The truck-stop waitress jobs are just temporary.) One night they run over a giant mutant bunny and Jocelyn is

abducted by alliens This leaves Allison no choice but to out her radeaing, dancing, and weitressing skills to the test in the subterranean chambers of Lotar king of the evil Space Bunnies, who has imprisoned Joselyn and is forcing her to provide the living soundtrack to his perverse biological experiments and his plans for world domination. As Allison, you must infiltrate

While SPACE BUNNIES MUST DIE! doesn't quite live up to its gango plot, this third-person TOMB RAIDER done is good fun to play. And, Allison can dance. But well, there's more! You can dress her up in an assortment of outfits! (My fave: "Truck Stop Waitress.")

**Bunny Burrow to Hell** Gameplay is mostly what you'd expect running, jumping, climbing,

mutant monsters and provides dues to finishing the level. Of course, each level also contains an assortment of weapon power-ups: health in the form of "Zombie Juice"; keys to open doors and extend ladders; carrots for the giant juicer machines; tiny 'copters to ride; levers to throw; ledges to scale; and plenty of bad guys to blast, nuke, frag, debane, or otherbunny or rurs over a power-up grow pretty stale well before the end of the pame—as do the animations for saving your level Levels start out pretty easy, but

drinking zombie juice, and so forth. the need for fast action and fine timing grows as the game progresses. There are often multiple ways to run a level or even to reach a given goal-either scale the cliff or ride the raft, for





## the Space Bunny complex and save locelyn...and, you guessed it,

the world!

APPEAL: Drange for a Lava Croft to FROS: Good sense of human; some novel kings, creat

CONS Occasional glaches, a bit shollow and repetitive soso level design. DIFFICULTY: Interredicte REQUIREMENTS: Printium 166. Windows 95/98, 32M8 RAM, 150ME hard-drive space, 4X CD-RCM, VI SA

local bas or PCI video card with 1MB RAM sound cord. 3D SUPPORT: Devot 3D, 306c. MULTIPLAYER SUPPORT: None.

Publisher Record Come

the head.

croughing, collecting power-ups and opening doors. But there are unexpected goodles thrown in. After conquering one huge beast, you can ride him and use his superior strength to pry open heavy doors and bash lesser mutants on

Each level holds a CD which. when inserted into a convenient lukebox, plays one of Jocelyn's desperate songs, which seduces

And you'll want to kill 'em once you've seen what they're up to I mean we all know that aliens mutilate cattle, but it obviously doesn't stop there: The bunny complex is crawling with zombified humans and horrible hybrids-half poathalf bunny, half bearfhalf bunny, half vulture/half bunry...ick!

and you can ride that hideous freak out of the room and on to glory

Shake it, Sweety Luckily, Aftson can distract the bad bunny mutants by dancing to a rockin' collection of tunes by Ro-Diddley Buddy Holly Southern

Culture on the Skirls and others Entranced, most Space Bunnies will eventually start dancing too making them easy targets. Although the music and Allison's dance steps vary from level to level, the cute things she says when she kills a

example-but there are actions that must be done in the right order or you'll be stuck and forced to backtrack. You can only save your propress at designated kinsles: thankfully however. they're sprinkled liberally through the levels While SPACE BUNNES. was stable in general. Loccasionally found myself stuck halfway in a mountainside.

Overall, SPACE BUNNES is fun in a campy, B-movie way, neither reinventing the genre nor pushing the technology envelope-just delivering solid fun. And, when there's no bunty around. Allison will dance just for you.

Sholes it, Baby, CETTY Right this minute. Mark Clarkson has the lights down low and is watching Allison do "The Swim" on the Bo Diddley level.

# GEAR UP FOR TOP PERFORMANCE





NORTON AntiVirus™

NORTON CrashGuard™

Utilities™

CleanSweep™

NORTON Web Services™





### Norton SystemWorks": The smartest way to keep your computer working

Whether you are an experienced PC user or new to the world of computing, you need utilities. Your computer needs constant maintenance—from optimizing your system to keeping your hard drive clean. It needs protection against viruses and infections. And ways to prevent crashes, resolve conflicts and remove unneeded protegrams.

That's a lot of utilities. So many that they duplicate functions, sucking up system memory and precious space on your hard drive. Sometimes they even conflict with each other!

Of course, computers ought to function well these days. But since they sometimes don't, you need a single, comprehensive solution that will keep your computer working. A solution that's affordable. A solution that's easy to use.

That solution is Norton SystemWorks. Because it has the very best and most current version of everything you need, Norton SystemWorks is the smartest way to keep your computer working. And Norton SystemWorks is Windows 95 and Windows 98 compatible.

What makes Norton SystemWorks the best? Norton Utilities™ - the #1

problem-solving software for over 15 years and the industry leader in detecting, repairing and preventing major and minor computer problems. For focused power and control, it optimizes your computer to run at peak efficiency, detecting Windows problems in the background and solving them will ground and solving them will.

intelligent repair capability.

Norton AntiVirus \*\*\* - the #1 anti-virus program in the U.S. and in the world, recommended by users more frequently than any other product of its kind. It updates itself automatically

and works in the background to eliminate today's and tomorrow's viruses, no matter where they come from.

Norton CleanSweep™ -The most comprehensive PC hard drive cleanup software you can buy, it safely and completely removes the widest array of unneeded programs and files for maximum space savines. New Fast & Safe Cleanup removes several space-eating file types with just the click of a button, or it can be scheduled to remove files anytime you want. Norton CleanSweep also removes Internet cache and history files, "cookies," ActiveX



Five award-winning Norton products integrated to work as one.

controls, and browser plug-ins.

Norton CrashGuard™ –
automatic protection against
PC crashes and screen freezes
that can ruin hours of work.

that can ruin hours of work.
Norton SystemWorks includes
software that not only minimizes
the chances of a crash, but in
most cases lets you save your
work if a crash does occur.
Norton Web Services™ –

Norton Web Services\*—
a web service that locates
and helps you Install any
hardware drivers and software
updates specific to your
system. It detects the software
and hardware installed on
your computer, then uses
the power of the Internet to
check your needs against
Symantec's up-to-the-minute
database containing thousands
of patches, drivers and
application add ons.

#### Norton SystemWorks is integrated Only Norton SystemWorks

offers you an award winning, bast of breed coffection of utilities and you can click it all into action from a single, integrated Norton SystemWorks screen, Because Norton SystemWorks is so tightly integrated, it's easy to install and easy to launch. All the utilities included in Norton SystemWorks are

designed to work compatibly

Just one purchase buys you all the functionality you need for system problem-solving and optimization, virus protection, program removal, maintenance and crash protection.



Easy to install with the CD Start screen.

with each other and duplicate functionality has been eliminated. Moving from one utility to another — say, from Norton Antifyrus to Norton Norton Antifyrus to Norton Dutilities — is as simple as clicking a button on your screen. What's more, Norton SystemWorks features like to Co Start and Launch Pad make it exceptionally easy to use.

#### Norton SystemWorks runs the way you want it to Whether you want it to

whether you want it to work automatically in the background or you want to customize it to adapt to your level of expertise, Norton SystemWorks can accommedate your needs. Norton SystemWorks can be customized for the perfect fit between you and your computer.

Norton SystemWorks

### is an excellent value Norton SystemWorks also

comes with a FREE Bonus Pack CD including the following stand alone products; Norton Mobile Essentials\*\* — to reactive laptop connection problems, Visual Page" — a web development tool for building, deploying, and managing personal web pages, WinFax" Basic Edition — to send and receive faxes directly from your computer, pcANYWHERE" Express — to remotely access — to, applications and information from your web browser.

Just one purchase buys you

five award-winning products and a free Bonus Pack, A total retail package valued at \$500 for one great price - \$69.95\*. And if you own any Norton. Symantec or competitive product (Nuts & Bolts\*\* 98, Nuts & Bolts\*\* Deluxe. VirusScan", FfrstAid", or Uninstaller\*\*) you can get a \$10 mall-in rebate from Symantec when you purchase Norton SystemWorks, Nothing heats Norton SystemWorks, It's a convenient, one-box solution with all of the most current and effective PC utilities. Norton SystemWorks, The

smartest way to keep your computer working.



It's No Coincidence Symantec Products Come In Yellow Boxes.





















Making customers happy is what Symantec's award-winning software is all about. Happy because you're more productive and your computer is safe and reliable. Anywhere. Anytime. And if that doesn't make you smile, now you can try them all for free.

Download Free Trialware At www.symantec.com/smile

SYMANTEC

### Infernal Vigilance

### SegaSoft's Buggy GOLDENEYE Killer Manages to Assassinate Itself

#### by Scott A. May

oping to catch a ride on the latest shoot-em-up bandwagon, SegaSoft presents VIGILANCE, an awkward blend of the N64's GOLDENEYE and Sepa's own VIRTUA SQUAD, Intriqued? Well.

shoulder that rifle, soldier, The paper-thin storvine casts you in the role of one of eight counterterrorist agents, part of the Special Intelligence Operations Network (SIDN). All of your agents have their own special talents, and the trick is to learn each character's profile and match their skills to the environment and objectives of a particular mission. The 25 single-player mission objectives are poetty standard stuff---kill the bad

some equipment—though multiplayer mode cuts to the chase for some stealthy assassin fun.

The major hook of VIGILANCE lies not in its 30-rendered worlds, its cache of sexy weapons, or multiplayer mayhem. Instead, rather than storming rooms, guns blazing, players must employ stealthcreeping up on enemies and using available cover to their advantage. From an action perspective another high point is the ability to use more than 27 weapons depending on the mission. At face value, the variety of your arsenal

is menacing indeed, including

assault rifles, shotcurs, lasers,

explosives, and more.

rocket launchers, spear gurs, C4

tures, thus inviting comparisons to

GOLDENEYE, is your ability to move

your weapon hand independently

from your main line of sight. This

within a wide area, without mov-

I pride myself on being deater-

ous-I can handle most flight sim-

controllers, operate a can opener,

and sometimes remove the shrink-

wrap from a CD jewel case with-

out using my teeth. But the con-

trols in VIGILANCE left me feeling

deal: Unlike QUAKE-type shooters

like a total klutz, Here's the

allows you to pinpoint your fire.



VIGILANCE's version of mouse look requires that you hold the right mouse button to change your character's line of sight while using the keyboard to move. To aim your weapon, however you

must release the right mouse button then use the left mouse button to fire. In theory it sounds simple and functional. In practice, howevec I found myself constantly disoriented, wildly oversteering in the heat of action, often unable to coordinate mouse clicks to move

and face enemy fire. After an hour with this game, I was ready to smash my mouse with a hammer. I did enjoy the ability to change perspective on the fiv-from thirdperson up-close, third-person removed, and first-person. Third-

person is especially impressive when you target something standing directly in front of your Your character image classives, giving

you a clear view of your victim. The game's is Inarieri graphics are a mixed bear Direct texturing is pretty

unimaginative. with generic wells, floors, and cellnos-all Rtored with the

usual crates

barrels, ducts, and so on, Although the game doesn't require 3D acceleration, the software-only rendering is pretty uply with noticeable frame-rate choppiness.

The long list of technical difficulties begins with the inability to save your game if launched from the CD solash screen. Even if you remember to run the game from a shortcut icon, saving is still a chore. The game also requires a whosping 650MB of hard-drive space (500MB game data, 150MB swap file), yet still takes up to two minutes to load each mission, oven on a P233 with 64MR RAM. There's no excuse

In-name offiches abound, ton. including the inability to crouch white in first-person perspectives blood splotches, meant to show your damage, that float in midair: characters missing parts of their texture skin, or the annoving propensity for three second screen freezes when more data

With gameplay that hardly compensates for its shortcomings VIGEANCE is an exasperating morerience you won't likely want to endure GGT

Scott A. May keeps himself up nights auzaling over PHARDAH'S ASCENT, LODE RUNNER 2, and GIBBLE 2

#### Misfiring on **All Cylinders** guys, infect an computer, blow up One of the game's principal fea-



NSG's Golden Fee. PROS: Innavitor t-and shoot effects lats o which to choose

CONS: frustrating controls; long loading times; steep storage requirements; so-so 3D graphics ungine; suchnically buggy. DIFFICULTY: bearrandate

Windows 25/38, 32ME RAM, 65CM3 DiructS compatible sound and video Web browser required for mEALINET. 30 SUPPORT: 30%. MULTIPLAYER SUPPORT: LAN and

Publisher Segasets

www.comouterparring.com





#### The World Is Yours.

Ent a this world of Populous The Beginning, where you are a drifty, Gastroit the alternative man force the world's shabilization to do your bidding. Build civilizations that a core you, and strith-down the rook live rate. Populous The Fightining brings it all to life with susparallel of global graphics that trudy deferre the omatigeness view of a decry. View every into the two world and its

inhabitants in swirling real-time



it's poer world, do whatever you will. With a said moteum out will a superfice, Populous The Registring Intetaction Newsdale from your member of an Inc. of Manager.



Tree control the elements, I now releases to more original locust straints, subtack the power of nature to hely you build heards of followers and control the world.

# POPULOUS

Available now!
Download the demo at
www.populous.net







#### Superior strategies. The legend is back, and this time

Populous? The Beginning presents you with more intricate strategies than ever before. Should you convince neighboring villages to follow you through desire, fear, or battle? When is the right time to summon a volcano? Can you convince all the world's people to revere only you? Populous: The Beginning offers unsurpassed strategic battles versus the computer, or you can compete against other deities in multiplayer arenas.



Use spells like "Torondo" to coss helpless villagers like rag dolls, and lay waste to all the structures in its path. Watch as sour turn to blood and allow turn crimson.



Boild the largest tolls wing of believers, and beministed to world. In Population The Beginning, you'll actually see rillagest hidding temples and cities in your boson.

POPULOUS THE BEGINNING

Available now! www.populous.net







Populous T.A. Regioning I styone makash nature is most of virat thing powers indeding nase, acting locure or area, earthquakes, tornodes, volumes, and the bealth and add a transpoolides. And sore manapassed appairs engine lenings all the deviatation to Bife in certly realistic decail. Experience the bird of power few mortals can handle, and we'll make a helicity even tird size too.



to a Sall to from about mate the rest and well to face! Though your Samon, you can command your legion to the obligate enoughts.



Orlandore premist lightens and entil synthes. We no advicency game cogne, depolose the degrancy actually his posteunifern the landscape to subject vestigies.

POPULOUS

Available now!

Download the demo at

www.populous.net



## **Fly-By Shooting**

#### Wreak Havoc From Above in These Airborne Titles

### Plane Crazy

↑ ↑ ★ ★ ★

Publisher SegaSoft
Price 329.95
www.segasoft.com/planecrary
3D-enhanced fentesy flying
gerne, PLANE CRAZY is a
beoutfully rendered speed



demon with few real-world trappings. Conceptually, it's nothing new, combining the graphic splender of Rage's Incommiss with the full-throttle speed of Germin's 1995 fantary roce, SUBSIMAM 5000, with a bit of Psygnosis'

WierGUT added for good measure. You choose one of three arcraft to compete on mine outdoor courses, each an incare risk through convoluted, elsboranshy detailed landscapes, including desert cargoins, sessides eltheries, svictori, rapids, and urban sprant. Modes of play include Quide Race, Ghost Race—he witch you compete against your own best soure—and the matricourse Championship Race. This last mode plays resourably well with both LAN and

HEAN RET multiplayer matchups. Your biggest challenge is to find the shortest, fastess peth through each obstacle-leden lendscape. Doubty controls compound your need for a good eye and fightning reflaxes. As you can your wings, supect to bounce around the narrow lares like an airborne pinball before exploding in a fireful. Those with a low frustration threshold, beware. Other features include both good and bad power-ups and eight

tenacous, computer-controlled competitors. The game's coolest twist arms you with a sonic cannon, which can neveal hidden shortcuts through the courses. The 3D graphics are spectacular, with exocleted use of coins foo and

have effects, and flery concussion rings. Although gameplay eventually becomes repetitive, the quest for the best possible racing line through the multihade of courses helps extend courses helps extend courses.

had arcade racting nut, PANE
CRAPT delivers the goods. If
you're hoping for more realword substance, keep birding
you're firm—Scort A May
FY HOWER Will let you take

Fly Hunter

Publisher Nanotolnarent Price: \$49.85

If you hate bugs and love well'd shooters, Riz Huntte is for you. Armed with a Nanochine—a specially outfitted flying craft the size of a fly—you'll serve in the Nanocorps, a futuristic organization.

Nanocopys, a Nutriest organization amining no endicate of inimises. Addie from everyday pest control, FV HUMTE also involves an evil scientist and his mutant bugs best on destosying the world. In more than 30 these missions, you'll shoot down files, wespe, homets, tiller bees, and matted bugs that shoot back, 'You get to deen out private homes, parts, derlang spore stations, and even the White house. Completing a mission eness.



y you sligher rask, which gets you the tougher assignments, and cissls, so you can wist the company store and upgrade your Manachine. RY HURIER requires skill and mellows, especially considering the less than responsive controls. Unforwantisty the game comtended fourteing a year of your years and you quick-save on sester feature, soil you've swarmed by islate been, source showed to remain to music

> bugs are tough to breat at even the easiest of settings. FY HUNTER will let you take on insects as well as fellow Nanocopp pilosy via LAN, IPX, modem, or serial connections. But given its touchy controls, unifiently seek feature, and lockluster graphics, you might be better off billing this bug.

Fighter Pilot

Publisher, Electronic Arts
Price \$19.99
www.ea.com

ulator, it's more a budget version of Origin's classic "action sim," STRKE COMMANDER, Controls and combon are simplified and straightforward, with aircraft that are vertiable IP-5 juggernauss: They're armed with decers of missies, virtually impervious to damage, and loaded with unlimited countermeasures and fact. What's more, by adoing the interdudes that made \$198E COMMANDER interesting, FIGHTER PILOT remains pedestrain in all respects. The old in \$1800TER

Picot is simple, even simplished: The ladgis have been acting up again and it's up to you to stop them. You get a lineer set of miscions: By beer, kill this, repeat, Enternies are mirrorescus and well armeel, but thanks to a desurtory All and your right insulherable aircraft, you'll make quick own of them.

The Janu's F-15 engine used here is out of place in an action game, frame rates on high-end PCs are occasionally chappy, Attempts were made to more out F-15's combot visuals, but the results you to modern action game standards. The audio persentation is smillerly turns. He final blow is the game's seedine pace, which leaves you yearing for some odernalmefilled moments. Right IIP POLT rended a cleaver.

focus EA wanted ATTREBRINE, but ended up with a watered clown STREE COMMANDER. The Immide set of single-player missions provides little wanter of challenge. Surprisingly, multiplayer dossor's support a comercine materimaling service. Throw in graphics more stated for a hard-core stimulation and you've got a game that's like a TV distant, not look, but very, very bland —Chase Object.









### TEAM UP



commando Thorn sees



heading uplield ball in hand Sulky realizes she's target #1



Ferret killed by MadMac teamwork

### multiple arenas 10 minute matches fast & fierce

"shake your boots commades I need cover fire here"

many ways to play



Capture the Flag the name says it; capture and held as many tings as you can for as long as you can

ecore points by destroying enemy C1996 Vulticute, Inc. FireTears and the FireTears and Mult ere iradematic of Multitude, Inc.

to win:



JimG killed by PsychoCat. Sulky recovers the ball for YOUR team!

hunt the other team to rack up kills, then protect weekesed teammetes or you'll be everrun





her last kill ferced a fumble now PsychoCat's about to draw tire



tresh from frying one Ferret adMac takes heet for the team

\$59.95 [plus S&H] Includes NC65 Gameware™ headset and unlimited free play. No monthly fee.

true team play up to 12 players per game online real-time talk with your teammates online team un

talk it up or lose

FireTeam

True Team Play Real-Time Talk www.fireteam.com

### **Thick Atmosphere**

This Long-delayed WWII Sim Delivers an Immersive Campaign

#### by John Nolan

ometimes, when everything comes together the whole is greater than the sum of its nerts, EUROPEAN AIR WAR (EAW) is a perfect example. While not all the features of Micro-Prose's WWII flight sim are "bleeding edge." together they make one impressive package.

Uncle Sam Needs You! After a long, dry spell, few WWII PC pilots will be able to resist MicroProse's invitation to a Quick Start. This ontion launches you into a crowded melee, automatically selecting armaments and enemies.

After you gorge on our fights, the Single Mission option beckons with Fighter Sweep, Bombing, Interdiction, Escort, and Intercept Create a plot and start a Carrier, The choices will keep you busy for months. Select the Barrie

for whom play is that typ condy dynamic carr

COME It would have pely taken a bit more work on flight model realism, a five-star supursano. KULTY: Interrectate, COURSEMENTS: Purdum 165.

Windows #5/08, 32M8 RAM, 55MB Bord-disk speci, SVGA graphics, meesi. 3D SUPPORT, Deviction 3DN Glicks BUTTEL AVER SUPPORT Modern allest entruct I All Informet MSN Garmeno Zone (2-8 players).

Publisher MicroRose

the Brits or the Germans in 20 models of 11 different aircraft. Enlist in an air force, pick your souadron (which determines plane type), and report to the briefing room. These campaigns are EAW'S hook. After seeing your mates bobbing gently in formation off your wing and a herd of Heinkels on the horizon, the addiction begins.

Luftweffe's last stand)

that take part in missions help create an authentic feel. 1943 (the Americans arrive), or the More than any other WWII sim European Theater: 1944 (the to date, this game provides a historical feel. The immersive atmos-You can fly for the United States, phere is clearly the highlight of the game; even radio calls are in the appropriate language and accent. The dynamic aspects of these campaigns make you feel more like you're in a fiving world than in a canned script. The mission tasking can seem repetitive. but that's probably exactly how a

in 1940.

member of a Spitfire squadron felt

ESSERSCHMITTING AROUND The sheer numbers of planes

sorties: a mission editor can mod ily 16 parameters. Here, you can hone the flying skills necessary to succeed in the coming campaign.

nario), the European Theater:

of Britain: 1940 (an early war sceds can be a pain on a

ission since they obscure the ter sweep, however, they can rt. On a figh be used to mask your attack or help you

**Spots Before Your Eyes** The game's graphics are reasonably close to the state of the art, but other characteristics besneak the sim's long development time. A Celeron 300A/128MB RAM/RIVA TNT system handled max-detail

D3D duties with case, but a Pentium 166/64 MB RAM/Voodoo system required most settings to

be at minimum for smooth play. At max detail, the engine draws excellent cities and fields, although textures seem overmagnified and a bit blurry when you're down in the weeds. The sometimes cloudy skies acki atmosphere and have tactical applications, but they'll mask the enemy as well as they hide you. Special effects, such as flak bursts

> and sun-blinchess. are good, and night operations are an unexpected extra. Aircraft exterior graphics look great up close, but are disappointing when range increases: They rapidly lose detail and transition to tiny crosses and then to dots (see "Size Matters," next page, for

more on this). Tracking the dots is easy; nearly every type of viewing option is supplied with a "zoom" for most choices. The function keys provide a full circle of overlapping fixed views, the virtual cockett and padbook notions let you look around the cockpit in 3D, and external camera views enable sightseeing or spring on enemy formations. There's a simple, effective snap view system using the numerical keypad, although the aircraft structure is inexplicably missing in the

up and rear views, Interior cockpit



While they feature working gauges, the blurry artwork makes the gauges hard to read.

#### **Modeled Planes** and Brains

The flight model and enemy Al are adequate but not noteworthy. The flight model in realistic mode is easy to fix Stalls and spins are there, audio and visual cues give plenty of warning, and standard recovery techniques will get you back in level flight, Spirs aren't modeled totally accurately, but they take you briefly "out of the fight," and that's what's needed.

Torque adds a gentie drift at full throttle, and it doesn't chance in magnitude as the throttle moves. Dropping flaps generates minor changes in pitch and slowly affects. airspeed. These and other characteristics indicate a preference for playability rather than realism. The model works well in play.

though, because other items add complexity. There are good blackout/redout effects, the engine overheat option keeps you from just leaving the throttle firewalled, structural damage limits your dive capability, and midair collisions shrink an already crawded sky. So, while the flight model isn't "cutting-edge real." it does the job of modeling the characteristics necessary to immerse you in combat.

Al pilots fall into three still groups: Green, Seasoned, and Expert. You'll routinely encounter each type. Green pilots are carmon fodder. Seasoned pilots are more appressive, but not much better

defensively. Experts try historically correct eyesive moves, along with aggressive offensive attitudes in the opening phases, However, even they can be drawn into turning fights. This Al weakness is most noticeable in a one-onone fight: less apparent during the massive melees of the campaign missions.

When you the of battling Lt. Intel, multiplayer awaits. Frozon humans via serial. modem, LAN, or internet connection (eight players); there's also matchmaking and free play on the Internet

Garning Zone (www.zone.com) In addition to the requisite free-forall, you can fiv full missions such as bember escort, interdiction, and so on with other human players. Kurles to MirmPense for not reking the lazy way out and including only a deathmatch mode.

#### Launch the Fighters! With its dynamic campaigns and

a multitude of mission options, EUROPEAN AIR WAR packs a ton of entertainment onto a CD. There's an epic quality to the depiction of

s are so faiet a

the air war here, and while some aspects could have been better. EAW has an unmatched immersheness that truly makes you feel for you're defending the skies of Europe. If you're a WWII air combat junkle, you're in for some sleepless nights! (RECV)

> When John Noten is not flying 727s, he's wringing out JANE'S WANT FIGHTERS.



ORTHOSE WHO THINK GUN CONTROL

PROGRESS THROUGH STX TREACHER



TYPES INCLUDING LAND, HOVE AMPHIBIOUS AND SUBHERSIBLE



AKES FULL ADVANTAGE OF THE LATEST 3D HARDMARE ACCELERATION WITH FULL VOODOU2" SUPPORT.



INCLUDING THE ARC SABER.



OMBAT EVEL FORCES ALONE OR JUH ONLINE AND MREAK MULTI LAYER HAVOC IN AN 8 PLAYER DEATHMATCH HAS SOMETHING TO DO WITH AIM.

THE VISUALS IN THE GAME ARE STUNNING AND THE GAMEPLAY IS EXTREMELY IMMERSIVE -CAMESI ICE

"LOOKS TO BE A KILLER ADDITION TO THE

GAME GENRE. NEXT GENERATION ONLINE



# layable demo at: www.recoil.westwood.com

"DEMO RATED 5 OUT OF 5."

"...THE FINAL RELEASE IS CERTAINLY ON MY MUST-HAVE LIST. -ADRENALINE VAULT









### 3D's the Charm

This Time, Sierra Recaptures the Magic of the Original

by Robin G. Kim hat does it take to earn the forgiveness of gamers a timely but fix patch or two is enough, But for apparently felt they had to do more to rebuild customers' trust

burned by a buppy product? Usually, RED BARON II. Sierra and Dynamix and repair the image of one of their more valuable franchises. The result is RED BARON 3D, a new, substantially upgraded version of RED BARON II, available at no cost to owners of the previous game.



BID BARDN II had the potential to be a truly creat sim-boasting. a wealth of carneglyy options.

MICH I MARKS

BEADS WITH BE cturest in WW copy, immyesiv trees in depart bilitic bega-scale multiplay ir support.

Si No Déscritto support some sous no coccessive multiplieve support. OFFICULTY: Moderate REQUIREMENTS: Fundium 139.

Windows 95/38, 12/48 MAY 200Alls hard-drive space; 4s CD-HOSE SVGA graphics. 30 SUPPORT: 30k

brect cable, LAN, Interpet (2-100 players). Tion: \$19.65



including a dynamic campaign covering WWL 20 flyable aircraft from Firsteldors to Spad XIIIs, and a powerful mission builder What shot RED BARON II down were its simplified flight model, dated oraphics and a long list of buos. RED BARON 3D addresses these shortcomings. All major bugs appear to have been squashed-

though inappropriate disciplinary hearings still occur, and Al planes occasionally crash into extremely hilly terrain. Owners of 30fx cards are treated to much improved visuals and higher frame-rates Direct3D Ise't sunported, but even those without 3D accelerators can take advantage of the new \$00x600 and

1024x768 resolution options. While easier flight-model settions are available. RED BARON 3D

preater energy bleed in turns. torrue, and gynoscopic precession effects. and fuel starvation under negative Gs. Landings are improved, with less bounding

introduces a

drastically more

malistic option

that offers more

accurate perfor-

mance and fuel

consumption.

and shorter rollouts. The sim's flight model may not be as sophisticated as FINING CORPS'. but it is impressive.

#### Now How Much Would You Pay? It could be aroued that we've

merely ended up with the game RED BARON II should have been when first released. Fortunately, RED BARON 3D goes several steps further, adding a list of other welcome enhancements along with support for large multiplayer dogfights on Sierra's World Opponents Network (www.won.net/ woac), included are a complete set of overlapping fixed cockpit

views (complementing its many padlock view options), more realistic bullet lethality and spread for machine guns, and better Al to cope with the more complex flight model. Included in the online gaming options are deathmatches. team deathmatches, and a warky "Get the Baron" mode where only the last pilots to score kills are allowed to garner points. Each arena has its own time period. which determines what plane types are available. Gameplay is generally smooth and relatively lag-free. Unfortunately, coopera-

tive single missions and compaigns aren't supported, and the ES Cockolt is easier to read than in RED BARC

> multiplayer modes suffer from sporadic name crashes

Sierra has released a series of patches for RED BARON II to fix bugs and add features, culminating with a "super patch" that brings the game to full equivalence with RED BARDN 3D. Owners of RED BARON II can choose to upprade to the new version by installing the latest patch, or they may buy RED BARON 3D and send in for a full refund in RED BARON, RD Sierra

has produced a worthy successor to the original RED BARON. Robin G. Kim has finally taken a breather from his geme-lock on RANNOW SIX to take to the skies of FUNDESON AN WAR ATTY

## Revvin' Spacey

Three Space Sims With Distinctly Different Acts



Descent: Freespace

Silent Threat

\*\*\*\*

Publisher: Interplay

Price: \$19.95

Verplay's DESCENT: FREESPACE

didn't win any awards for prin-

nality but based on its techni-

cal excellence if warranted a mis-

sion nack add-on. SEENT THREAT

includes a new campaign, along

with a bost of stand-alone mis-

sions designed by the develop-

ment team and other players.

manually because the default

loadouts for most of the mis-

encouraged to chaose your gwn

gamers assume the mission is

setup and hesitate to alter it. I

see the new ships-on improved

Bomber: the Zeus: and the Loki.

The campaign is short, with

a faster, recon-style fighter-

most often as enemies

designed around the default

sions use the original set of

ships and weapons. You're

mission loadout, but many

You must chapse new ships

and weaponry as major elements

tised capital ship makes only one appearance. and it's not very intimidating. The stand-alone missions were picked from online submis-

conspiracies. The adver-

sions, so at least they're not just randomly narked Net filler This is an average mission pack. The missions are decent, and the multi-

player has been cleaned up a bit ôt includes a patch up to 1.04). But this pack could have been a lot more, so it's best for the dlehard FREESPACE fan.

-Thierry Nouven

also behave realistically in other respects MOTHs law on energy head for the nearest charging station, while damaged graft head for repair facilities. The city background is

HAROWAR's strongest feature: little new ground is broken in gameplay You start out with a poorly equipped MOTH and a small bankroll, with the goal of improving both. The artison involves establishing lugrative trade routes, defending yourself against protes, hunting down miscreants for cash, and fitting

secrets, the plot-related missions.

HAROWAR is fun for a white.

but the possibilities are quickly

exhausted. The limited trading.

the game's scripted missions.

the entry fee -Chase Dald

interaction, and combat become

repetitive. Dace you've completed

there's little reason to go back to

should find enough play to justify

the city. But at only \$19.95, you

are too few and uneverly snared.

new components to your MOTH. As the game progresses, you'll be allowed to begin the missions that make up the meat of HARDWAR's plot You run around upsetting the powerful, out-ofcontrol factions of the city. Although you uncover interesting

Hardwar

\*\*\*\* Publisher: Interplay

LITE and PRIVATEER Sans reforce: Another game has ioined the thin ranks of scifi trading games HARDWAR narrows the focus, instead of plying your trade in yest star systems, HARDWAR has you piloting souped-up hovercraft, known as MOTHs through a signle

HAROWAR brims with intricuing places in which to conduct trade or combat. The background is busy and believable - other MOTH pilots make regular trading runs, pirates lurk to strip the

futuristic city

unwary of their cargo, and mitta carefully patrol their sectors. They Wing Commander: Prophecy Gold Edition **会会会会** 

Publisher, Origin DK# \$39.93 or all of its wasal grandeus

WING COMMANDER: PROPHECY followed the same well-worn path as its ancestors. The enemies were different. but little else changed Missions

remained simple affairs, the movie intedudes provided most of the Interest, WING COMMANDER PROPHECY GOLD EDITION (WC: P) is more of the same The package includes the origi-

nel PROPHECY and an additional CD containing the SECRET OPS missions (available free on the Internet for a time in 1998). The documentation includes the backoround fiction that was on the SECRET OPS Web site

WCP GOLD is still a solid bloss-



cially on PCs equipped with 30 cards. The missions are the risks downside. You fiv to the assigned waypoints and kill all the had mass at each, then onse and repeat. The Strike Ons messions take this to unimaginative extremes They are stuffed to overliowing with multiple waves of enemies, turning an amusing game into a monotonous shooting gallery. There is some added value in the

SECRET OPS package Instead of sandwidning in video, the package uses the game's graphic engine to provide new standing vionestes Your ships are fitted with new, ratid-firing weapons---you'll need them in the packed acons in Strike Clos. Earlier WANG COMMANDER spaceships make encores, but you can't piloted them.

Strike Oos adds little that PROPHECY didn't already beat into the ground. I'd recommend WCP GOLD if you missed the original release but PROPHECY owners. won't find much added value

-Chase Dahl

only about 12 missions. The plot has you loining the Intelligence Division of the GTA, through which you carry out "black ops" style missions. The missions soon become standard "escort/ destroy" missions wranged around a plot dealing with





Game of the Show E3 1998 -CGW / Winner of USO's Bost Roal-Time Strategy Game of E3









### www.sierrastudios.com

### **Developer Solid**

flaved in real-time. It features a built-fromch engine that enables bound strategic play and

unlimited camera movement within a 3D universe. Bu despite all the technolo simply to make a gare that

coming soon

You'll Fall In Love All Over Again Ten Years in The Making So Real, It's Scary Guaranteed To Blow Your Mind Be The First Kid On Your Block To Have It

lt's Solid Gold

You'll Be On Your Knees NO HYPE Mikey Likes It

Prepare For The Ride Of Your Life Blistering Brilliance

If You've Got The Time, We've Got The Game

Re-Revalutionizing The Industry

Everything You Could Want From A CD.ROM, And More One Small Step For Man, One Glant Leap For Gamera Your Camputer Will Lave You if trange < gunstatio.>builetrange°banus)

if (gunCanShoot(ship, gun))

switch (gunstatic->guntype)

case GUN\_MissileLauncher:

matGetVectFromMatrixCol3(shipheading,ship->rotinfo.coordsys);

vecDotProduct(\*trajectory,shipheading);

## shotguns : TRUE; ALL GAME

if (dotprod >= triggerHappy)

missileShoot(ship,gun,target);

case GUN MineLauncher:

if (gunHasMissiles(gun))

metGetVectFromMatrixCol3(shipheading,ship->rotinfo.coordsys); if (dotprod >= triggerHappy)

missileShoot(ship,gun,target);

## Grateful Dead



### Technical Issues Are the Only Demerit in LucasArts' Awesome, Epic Adventure Game

#### by Thierry Nguyen

pic isn't a word normally associated with LucasArts adventure names. That term conjures un images of The Ten Commandments or Lawrence of

Arabia but not of, say, THE CURSE OF MONKEY ISLAND or FULL THROTTLE, Yet, Tim Scholor's newest adventure game, GRIM FANDANGO, fits the criteria quite well. It forges totally new ground for LucasArts by presenting their most ambitious and complex plot yet-all within a package that offers stunning art direction, an original and intelligent script, traditional puzzle design. and great voice acting



The came begins with Minny

cetting yet another in a string of dead-end clients. In homage to

David Marnet's Glengarry Glen

Ross Manny finds himself in a

desperate situation; He's an old-

times, and if he doesn't get a good

lead by'll be fired Hence Manny

sets off to find a client that will

neserve his job and, in doing so.

starts his own four-year lourney.

cantly deriver than in most other

The tone of the script is signifi-

LucasArts

as in the

MONKEY

but is does

KLAND series

"A-B-C... Always, Be. Closing,"

The came opens with a premise tion: You're the Grim Respec the Dead whose job is to arrange

that's sure to catch anyone's atten-Actually as the opening out-scene explains, you're Manuel Calavera, a skeletal travel agent in the Land of trips to the Land of Eternal Rest. The more virtuous your client's life was, the faster they get thereand the bigger your commission.

> plot that involves a large amount of death and comunition This seepousness is offset by moments of comedy. though, The humor is not over the ton.

and more sarrastic in tone GRIM FANDANISO'S POUNDlent of MONKEY SLAND's Insult Duels scene is the Beet Poetry scene, where Manny (and the gamer) gets a chance to compose and read some beat poetry right on stage, using appropriately ridiculous verses like "Can you hear me saying

nothing?" "Of All the Gin Joints...'

What strikes you immediately upon loading GRIM FANDANGO is the beautiful and unique art direction. We finally have a game with prerendered art on the level of the MYST series and its clones, while also having traditional adventure gameplay behind it. A close examination of the background shows that the actists out a lot of care into each screen, putting in details such as ricpling water or

the tracking eyes of an octobus. Not only are the backgrounds detailed, but each of the game's games with a sections (divided into four years) has a distinct look-whether it's a serene and spiritual Aztec temple or a town that suspiciously

resembles Casablanca. One example of the brilliant art occurs early in Year One when you visit the Land of the Living, Beyond mere description, that one screen is much more creative than most of the filler that serves as background art in other games

The game's character art is equally compelling. Despite the fact that most of the characters are skeletons, each has a good measure of individuality-fleshed out (as it

# APPEAL: Age

that is fascinated PROS: A first

netire plot, beau receasable characters, carriere songt and music, puzzles are generally kent right.

CONS: Interface has some saids mnor technical bugs; somewhat hefty OFFICULTY: latermedate PERSONALIMENTS: Fredum 13 Windows 55, 32MB RAM, 30MB harddisse years for CD-ROM: supports

Windows 95-compatible sound and video cavk 30 SUPPORT: Direct30 MULTIPLAYER SUPPORT: None

Pres 500.05

were) with outstanding dialog and voice acting. Some of the characters are movie allusions, such as Chowchilla Charlie's resemblance to Peter Lorre's Ugarte in Casablanca, or Domino Hurley's resemblance to Al Parino's Roma in Glengarry Glen Ross, Others are wholly original creations, such as Manny's car-crazy sidekick Glottis, or the one-armed revolutionary who, appropriately enough, is robbing slot machines. The characters are so unique that you end up remembering them much more vividly than the stock NPCs in other adventure games. A musical score that is a good mix of swing, below, iazz, and spiritual South American folk music accompanies the art to

complete the experience. The puzzle design is usually fair and logical. Since you can only display one object at a time, don't expect to combine items within your inventory. The game is generally nonlinear-the Years have goals, and you're essentially given free reign regarding in what order those goals are achieved. The purales are traditional LucasArts face. In terms of difficulty the puzzles are the kind in which you fiddle around for a few hours, only to have some divine inspiration later on and then hit yourself for not noticing the logic earlier. I was annoved with a few puzzles. (mostly the forklift), but overall I found them to be forgiving and not to require far-out logic.

Playing a few hours per day it took me about a week to finish. So 20 to 30 hours of play, based on slott, is a good estimate for how long this game takes.



"Those Are Harsh Words to Throw at a Man..."

Unfortunately, with such a great game the flaws stand out even more. In my opinion the biggest flaw is the interface. While it is better than most third-person-on-abackground interfaces, there are a few problems that detract from gameplay. For instance, the way Manny's head turns when he notices a horspot is good but this would be improved creatly if items were highlighted whenever he looked at them so

that you knew exactly

I had to cycle through all possible hotspots whenever Manny moved his head-lust to figure out what I was looking at. Also, the separation between "use" and "pick up" isn't quite distinct enough because "use" also tends to pick up items. I went through a good portion of the game without using the pick up key and then got stuck because one item must be picked up rather

what you were looking at. At times.

Walking needs a bit of work since sometimes Marry would suddenly turn around for no real reason and welk down a path it didn't choose. Sometimes he finished a conversation and then was unable to move. Also, elevators sometimes had a hard time open-

than used.

ing and closing. A big problem for some gamers is that this game is a technical hog-





s, such as this annoy

You'll need at least 48M8 of RAM and a fast (16x or higher) CD-ROM drive, otherwise, you'll be witnessing stuttering audio, choppy cutscenes, and long load times in between screens. And don't count on that 3Dfx card to bolster your system; the 3D acceleration only deens up the character textures and smoothes out their animation; the game still primarily refles on

compared to most adventures.

your CD-ROM and RAM. If the interface were more traditional and the technical requirements kinder this would easily be a five-star game. Even with a somewhat approveding interface and high system requirements, the

ouzzles and a creet sense of style and presentation. Schafer has done a great job of greating a moods noir mystery with a farnastic script. and the artists at LucasArts deserve much praise for their brillant art direction throughout the game. If you care at all about story and character you need to get this game-even though it's a bear to control at times (3727)

game still has good EucasArts type

Though he's played his share of graphic adventures from Lucasarts Sierra and others Thinny "Scooter" Navyen watches way too many movies, both nois and non-nov.





# A NEW QUEST HAS BEGUN.



Return to a land of intrigue and advanture. Lead your band, of five characters on a quest to recover the Teor of the Gods, a mystical rulle, coveted by a mediman bent on spreading darkness across the land of Midkenia. From the dizzying heights of Krondor's Talace, to the haunted depths of a temple dedicated to an evil as ancient as the gods themselves, never before has an RFO derivous so much of what you wont.

RAYMOND E. FEIST'S
POSSIBLE OF THE STREET OF

THE OFFICIAL SEQUEL TO THE BEST SELLING RPG

and its patients whose

residence It's also the

story of the family who

ran the asylum, a mem-

ber of which also haunts

the place, and his fiving

break free from its influ-

father Malcolm Metcalf. was the last director of

the asylum before its clo-

sure. The state historical society now plans to turn

the place into a museum and Malcolm, his death

notwithstanding, is mad

Family influence is

unusually strong in the

as hell

ence. You are the son.

Oliver Metcalf, Your

son who is attempting to

ghostly spirits are unable to vacate their lifetime

# Chronicle of Terror



Legend Entertainment's BLACKSTONE Is a Brilliant Psychological Thriller

#### by Allen Greenberg

omputer gamers are insane. This is a fact that does not often arise during polite conversation; however it is, nonetheless, the truth. It is, perhaps, for this reason that author John Soul has hellfantly crafted an adventure chroniding the ultimate fate of those who are far more psychotic than gamers. This leads you to question whether those of us who spend our nights typing and mouse-didong away will not. one day find ourselves as spirits. haunting the rooms, chairs, and desks that we voraciously refused to vacate during our lifetimes.

### JOHN SAUL'S BLACKSTONE

I'm Feeling Better Now

Metcalf family, and five years ago CHRONICLES is appropriately subti-Malcolm used that industrice to get their AN ADVINITURE IN TERROR, It's you to distribute verious artifacts the story of a former insane asylum from the asylum to several figures. who were responsible for dosing the place and who subsequently died in bizage accidents. As the game opens Malcolm wonts you to

continue where you left all only to discover that his control over you has worn thin and you are no longer willing to carry on in the foul family tradition. Thus, Malcolm SANTARUM, A has again used his influence, this PROS Grazonas time on your young son, Joshua, hiding him in some secret place in omat storyline, engaging garmentar; putthe assium. To rescue Jestina and PORES Covel or BLACKSTONE is also still a prevent your father from "training" fairly standard adventure gome him to carry on in your place, you DIFFICULTY: Easy must thoroughly explore the asy-RECOMPENSATIVES Devices 166

graphics, supports Direct/XI-computition information you need to find that secret room 3D SUPPORT: Name MULTIPLAYER SUPPORT: Noon. may be too simple for some

deceased patients to pain the This thoroughly engaging and ultimately satisfying adventure advanced namers, but most players. will find it impossible to resist. Refreshingly, its numerous puzzles

lum and negotiate with its

TEP INTO MY PARLOR IN BLACKSTONE CHROKICLES the ing that you're in an asylum that has been con

verted to a m

I'm Drooling are all fied in well with the story. and none of them feel like

exercises simply meant to block your progress. Some prime examples of this take place early in the game. First, some simple copioration will reveal a control bandle whose purpose may or may not be obvious decenting on how much of the rest of the asylum you have seen. Once you do come across its proper place, however, its correct

function is practically written on

the wall. Second, some further, simple exploration will uncover a large and very full ring of keys These keys you are told will open every locked door in the building. Yet, to sample each key at each door by trial and error would cost you more time than you have available. You need some helpthe source of which is anything but obvious. That help will not all appear in one blazing discovery, but rather through gradual exploration and percentation.

and I Feel Fine Generally, BLACKSTONE's fullscreen, highly detailed, smoothscrolling renderings of the asylum interior are incredibly effectivethough at times the 24-bit graphics can also appear somewhat gruesome: so if you have a weak stomach, beware. There are also movies and live-action photos mixed in with the other graphics to enhance the story. The vocal cast is nothing less than outstanding and stretches the drama of each moment to its

Windows 95/58, 32MB PAM, 200ME





## **EXTRA CRISPY** OR **EXTRATERRESTRIAL?**

With 64,000 colors, your SimCity 3000th skyline will look better than ever going up. But weit till you see it crashing down—after you select today's deviateting disaster. Why leave your city is peace when sometimes it's more statisfying reducing it to pieces? So what's your weapon of choice? Will it be a reging inference or a ray-your blast from above JUPO or BBQ? Take me to your leader or "take me to the burn word?" We just give you the power. What you do with it's your business.









#### REVIEW . JOHN SAUL'S BLACKSTONE CHRONICLES

fullest Malcolm in particular leaves you guessing about whether he is actually a mad scientist or the devil himself. Oddly enough, there is actually a soothing quality to the muted tones of the asylum interior and to the voiceovers, which makes the game that much more compelling. Finally, a prest deal of care has gone into the background score which, far from becoming tedious, deftly elevates the quality

and tension of each setting in addition to the spirits you will meet, you will find the asylum filled with display cases in preparation for the opening of the museum. For the most part the cases contain objects. that you are free to take. There is a musical chime that signals when you have taken the proper item for your inventory, which is unlimited in size. The display cases also contain quite a bit of text concerning the

history of the asylum as well as the

sequences in which this is not the rase and you must perform the desired action within a limited interval-or die. The program is most forgiving at these points. however, and following your death will, if you wish, actually tell you the solution to saving your life and then place you back to one step before the deadly sequence begins As in most adventure games, there is no score to be achieved and thus no penalty for taking adventage of this service

BLACKSTONE CHRONICLES uses most of the traditional adventure name devices. It is controlled

entirely with the masse and features a first-person perspective of

history of "curing" the insene. There is, however, a fine line between "cure" and "torture," and so much of this text is, like the graphics, not for the squeemish. Once you uncover it. Malcolm's diery is also quite disturbing.

#### Traditional.

#### **but Excellent**

Most of the game's puggles and challenges allow you to take all the time you wish since the story is generally not moving ahead in realtime. However, these are several

the asylum's interior which scrolls forward and pans right or left. The various positions to which you can move are fixed, but the scrolling process is impressively smooth and allows you to view the scenery as you move. It is important to examine your surroundings from every angle at each position lest you miss some important detail. The arrowshaped cursor lights up when it passes over some object or location that you may wish to question. The response to dicking on it may come in the form of a statement from

Malcolm or from one of the other spirits, Alternately, a test box may appear giving you two or more actions from which to choose Cosses

sation with the snirits is accomplished using the traditional multiple choice responses. For the most part, you are encouraged to try every one of the statements or questions that are available to you during a conversation. There is no danger in doing so-it's simply

part of collecting information. The program is provided on two CD-ROMs However, once it's installed on your hard drive you need only use one of the disks to play the game. Which one you choose will depend on your hardwere. One of the disks contains higher-resolution graphics and thus supports higher-end machines. Disk-switching, thus, is not a

Computer gamers are not really insane (not most of them, anyway). and I applique profusely to anyone who might have been offended by that statement. I was simply struck by the high moral califer of the insane characters in this story. In any event, BLACK

required activity.

unique piece of work with a gripping storyfine, wonderful graphics, and a most talented cast. It should not be missed IGELT

Allen Greenberg has been reviewing advecture games in CGW since 1991, and he is honing GARRIEL KNIGHT 3 ships before he mally goes insome







# BIRD'S EYE OR BIONIC EYE?

We could rely on all kinds of sophisticated marketing angles to get folks accited about SimCity 3000th But wild relief rely on sophisticated viewing angles. The rivid new levels of zoon let you got Book to advise your metro materiaptics from eleteral heights. Or pain in to see the galaxy tout kind caused the griddock that caused the griddock that caused the griddock to a simple of the simple seems of th











# Help Me, I'm Falling

gues, first aid, barter, speech, and

your character concentrates most

Points received at level-gain time

are used to increment skill scores,

and tags go up on a one-for-two

basis, whereas other skills increase

only one for one. So it's important

to choose the proper tag skills for

abilities: They do something nice for your character but they also

Fast Shot trait allows you to use

ranged weapons a little guicker

have a drawback. For example, the

The optional traits are conditied

your style of play.

on learning, and these improve

more quickly than the others.

The tag skills are the three areas

lockoicking; and you're done

FALLOUT 2 Is Flawed, but Still Very Good

### by Scorpia

n he secuel to 1997's RPG of the year FALLOUT 2, is a duplicate of its predecessor--only in a somewhat larger environment. Much will be familiar to players of the previous game; you could almost houl out your old Vault 13 handbook and go from there.

As in the original, you have

some precreated characters at your disposal, but it's always best to make your own from scratch. You have the seven stats of strength. intelligence, kick, endurance charisma, perception, and apilityall starting at five, with an additional five bonus points to spread across them as you wish. You choose your gender, age, name. and any optional traits you want. then you choose three tag skills from the usual list, including small



than most, but you give up the ability to do targeted shots (niming

at specific body parts). a perk every three levels. These have no drawbacks, although

In addition, you can usually pick which ones you're offered depends on your level, stats, and, sometimes skill scores. All the perks from the original FALLOUT return.

along with some new ones. These

blocked. Also, you can scroll the screen to a limited degree, allowing you to see more than just the

immediate vicinity. This proves very handy for checking on hostile critters in dangerous areas. Combat is again turn-based. with the number of actions you can perform (moving, fighting,

releading, accessing inventory, and so on) governed by action points (a

more points when you

read a book: Dodger, a

one-time +5 borus to

armor class: and Here

and Now, immediately

another level of expe-

rience and, starting at

Level 12, the ability to

increase nemanently

any stat by one point.

No Surrender

haven't changed at

all-you have 360-

decree movement in

third-person perspec-

tive. Typically, you can

go in any direction, as

long as the path isn't

Game mechanics

interface, and graphics

which gives you

function of and (utilize some perks. side or the or have run away, Your cumstances.

There is no surrender option: Fighting continues unfit all hostiles on one other are dead character in desperate cir-

can be with-

include, among others, Comprehension, which gives you 50 percent

drawn from the current map to another location. provided you can survive long enough to reach the exit. If your

APPEAL original arm PROS. Still is

specially character peneration, which

CDNS: Plot is a corbon eapy of the engsoft purploor travel is a real chare. DIFFICULTY: Extermediate. REQUIREMENTS During 90. Windows TATANT 16MB RAM, 30MB

compatible sound, SVGA prophics. 30 SUPPORT: None. MINTEL AVER SUPPORT NAME non teams







# MR. ROGERS OR MR. HUSSEIN?

It's a beautiful day in the neighborhood when you've got the power to rule over SimCity 3000? Because now you can make friends and influence neighboring cities, too, So mind your manners, or be mind-blowingly mean. Give them a warm welcome or the cold shoulder, it all depends what kind of neighbor you are Will your reigh be characterised by diplamacy or duplicity? Shaning or shearing? Will you build bridges or burn tham? We just give you the power. What you do with it's your business.









death is imminent, it's better to restore the game than try to escape. Conversation is a major factor in the gar

Conversation is a major factor in the game, just as it was in the original FALLOUT. It's only by talking to people that you pick up most of the important information and quests, barter for people faceofte other than merchants may have





Protect Yourself...Save Often

The deeper year go into the gazine, the more places you still and quests you accomplish, the barger is that to do sever and restorce. By the time year've more the end, you could almost waith your day arread the biford white variling for a save or load so finish, integrily is worting on a patiol for this problem, which may be available and word integrity can be the first problem, which may be available and word integrity can be the time.

you read this.

Toto, the given bleer out to the desktop on me, for unknown reasons this happened at different points, and there were no problems when legislayed dhem. Several other street, against all different points, a graphical acidity appealed, from the scores was fine, white part of it was dead thind, sharing the custom over the Makey perior "speed" the "speed" when will be proper visuals appeared. This of dirth happers to dist, but more distances mention.

desirable items), and generally make your personality known. The choices you make will influence people's reac-

you make will influence people's reactions to you; nasty remarks generally have negative consequences and can even lead to unwanted fights. What your char-

What your character can say is determined by intelligence and speech skill. A smart person with good speaking ability has better

ability has bester opportunities and more choices than a damin one. Even though you, the gamet may possess the intelligence to say the right thing, your in-game character may not. Yet another mayon to design with care.

The Big Boom—Again

Moving to the actual story of FALOUT 2, alist, we find only a densy releash of the congisals main plac, Consider in FALOUT, your well is a main plac, Consider in FALOUT, your well is amaning out of water than an earlier should be a subject to the wasses to find and bring beach a water chip. Along the way yet pack up first, clues, and pointers about a Greater Mensace (GMI, No sooner are yet beack with the chip than you're sent out, again to a lake care of the GMI, leading to a "Big Bloom" float.

In FALQUIT 2 your printitive tribe is suffering from a severe descipt. You are sent into wastes to find and bring back the GECK. (Garden of Eden Creation BI), Along the way you pick up hist, does and pormers about a GM. No sooner are you book with the GECK than off you go again to dispose of the GM, leading to a Big Boom finale. Some sitellifies to class. But a carbon core is

indiculous, all the more so because many of the subplices—the quests you do in the various towns and villages—are fer more interesting than the main storytine. One might almost think that the main plot exists for no other purpose than to provide a facility stanework for the midnoration of the space.

In addition, whatever tweelong was done to the engine wasn't for the gamen's benefit. It is much harder now to bill opponents (easile from the really week ones) with meny weepons. Most of the ranged guns deal demage toward the lower end of the range. Even burst mode isn't as effective as before, except in the case of heavy.



weepons. Setting combat mode so wimpy helps a bit, but don't expect to blow away the opposition with ease—however skillful you may bu. Tiswelling outdoors has become a burden of

liaveling outdoors has become a burden of helish proportions. We expect excounters now and then, but when they start conring two, three, sometimes four in a row, you have to wonder what the designers were thinking expectally since you won't be up to taking or the opposition during a good portion of the sparse, Of course, if you really enjoy fighting 10 packcepoistors or 6 fee neckoe, or pieth shread.

has let in elsow when to used the flower. Worker yet, some of those outdoor encounters have only one est gird, and the monstees are always between you and it. If you're ketchy, you might get usay with you sick in intact, desending on what's them. Note of the timed, desending on what's them, Note of the though, you! If eath on estiming to your lists safe position (carring a bit in the wilderness all the mecessry). A high condoors still helps will be the enso of the encounters can still come back to back of close to it.

### Scattered FALLOUT

Overal, \$41,007 2 hower me with very marked feelings, but of the important elements of the fing parts are here. The rain is bigger if is till real role-playing, and some of the sole-parts are farchwillig fittle gene of design. But the lack of creativity and the unversibility interested of admitted recorders take away from the enzyment of the game. For all its form, however, \$41,007 is still one of the best RVGs on the market—and that says something about these lean times. Called

Scorpia is currently getting in touch with her darkly humorous side by playing GRIM FANDANGO.





# **Basketball Jones**

EA's NBA LIVE Dynasty Is Alive and Well in '99







in as well Get Real

In last year's NBA LIVE the game moved to a polygonal 3D engine, which

looked awesome, although much of the carreplay code appeared to be untouched. Despite its great playability, the game had some ganing holes in its Al tactics. Nee boeing out when it either had a wide open lane or a player with a very good look at the bucket. With the 3D engine in place, EA was able to focus this year on gameplay issues, like smartening the sometimes-dim Al, as well as

adding more realistic individual player behavior by position. In versions past, you could often school the Al with the relatively simple Turbo/Slam gambit, where you get a rebound, pass to a player at midcourt, run him at turbo speed to the hole, and have him slam it home. This year, this strategy still

works at some of the lower skill settings, but dial up the difficulty and you'll find yourself facing a couple of defenders as you bring the player down the court. And sometimes, the All even prevents a Turbo/Slam-fest by cheeting. On a fast break, you'll be sprinting

down the floor on the way to an easy two-not uncommon in the NBA. But then, as if by margic, a defender will go blonic and sprint faster than a speeding built to catch you and break up the play. This one I've yet to see in the NBA. One could aroue this is a form of "play-balancing," but it's a cheep way to do it. We've seen similar Al skulduppery from EA in FIFA '98 and other sports titles.

smert, realistic moves, however, His setting picks and screens, and taking advantage of double-teams. by passing to the player who's been given the open look by the double-team. At All-Star level, the highest difficulty, the Al proves to be a tough competitor, although it would still occasionally box out on what were cretty much "nimme" open lanes or looks.

The Al also does some very

Of course, if you're a boops fan who doesn't want to bother with all this reality crap and just wants to slam, slam, SLAMI, NBA LIVE's Arcade mode greatly releves the rules. The game then begins to resemble Space Jam, with players able to jump three feet above the rim before making their deposit.

### D Up

The Al's defense also looks to be something of a mixed bag. At times it shines; at others, it falls



internet for the latest scores. PRESCRIPTO DATA REQUIREMENTS: Postum 166, 32MB

IAM, 90M8 hard-drive space COMEP card dx CD-80M Director RECOMMENDED: Produce II 266Mile.

30 SUPPORT GIAL DIVIDO MULTIPLAYER SUPPORT: Four-clos notseat, modern, sonal cable, LAN, and Interset: 1 CD per machine

by Dave Salvator

sucks-no three ways about it. For the first time ever as I write this. an NBA lockout has managed to wipe out regular season games through the end of 1998, and it's got me exhibiting withdrawal symptoms: sweaty palms, cold chills, and endless obsessive channel-surfing while shouting "Where is it?!" So when Sports Editor Jeff "Grand Master Brick"

ace it. Hoops deprivation

Green saw my sad state and hit me up to have a look at NBA LIVE 99. Liumped at the chance. EA has enjoyed oute a ride with its NBA LIVE franchise, which has

been the reigning king of basketball titles. The newest installment sees some important game improvements and some visual enhancements, all of which combine to make NBA LIVE 99 a very compoling title for first-time hoppsters, Long-time NBA LIVE devotees

COMPUTER GAMING WORLD + FEERBARY 1509

down completely. When the All oot a fast break, the last computercontrolled man on my team was often close enough to either close the lane or at least step into it and take the charge to break up the play But he did neither and the breakaway Al players could make easy buckets Where the AI does a mixed inh is toward the end of a tight game. If it's behind, it will only sometimes foul your team to ston the clock and force you to the foul line, although it does call fullcourt press for its defense in the dosing minutes. If your team is

down, you can foul the opposing team to stop the clock using the hand-check button, although none of your computer controlled teammates will foul to stop the clock, which can cost you the game. Plus, it's often hard to line up the hand-checking so that you actually make contact with the opposing player which

costs you more of those last precious seconds There's one nice touch: If you're on a tear, the Al calls time-outs to stop the streak, and if you've got auto timeouts enabled, it will do the same for you if B's on a run Despite some lapses, the

All is very responsive to

some situations, for instance, if you manage to completely smother an Al player's shot, he'll pass off to another player who has a better look to set up another play You can do the same on jump shots. You have to time the release of the half, and rather than release the Shoot key, you press Pass to shovel the hall to a teammate

These added dimensions of gameplay take a while to master. but NBA LIVE 99 has a practice mode that puts you (as whichever player you want) on a street court in Venice Beach to get your moves together And there are plenty of





new ones to use, including Spin, Crossoves Fake, and Pump-fake.

### The Long Haul

If you want to play GM, you can begin a season with a draft of available players from the NBA pool, and periodically trade with the Al throughout the season. Trades can work for you if a normally strong performer goes into a long slump. Also new this year, you can play up to 10 seasons, and your players will develop over the years, with older players gradually

to play all B2 regular season through them and go straight to the playoffs, assuming your team of choice makes it. If coaching is your bag, you can actually call offensive and

time Ticker of NBA scores from EA's Web site. While it's a very cool feature for the game, since it adds an ESPN feel to the interface, it suffers from two problems. The first isn't FA's fault. Because losing their edge. If you don't want games, you can simulate your way

of the player lockout, there are no scores to report. The second however is a problem EA needs to address. When booting up NBA LIVE on my home machine, which doesn't have a full-time internet connection, the game kept trying to dial my ISP, and when I canceled out of the dial-up and tried to toogle back into the game, it would lock up my system, forcing a hard reboot. Connecting to my ISP before going into the game fixed the problem, but it's an annoyance. The ticker should just not display if the name doesn't detect an internet connection.



defensive plays on the floor. including a variety of pick-androlls, motion, and full-court press

### just to name a few At the Final Horn

I haven't talked much about the game's very impressive graphics, mainly because the most noteworthy feeture of NBA LIVE 99 is the improved, though not flawless, Al. This year, LIVE's 3D engine texturemaps the players' actual faces onto their heads, and the overall effect is pretty convincing. Other new features include a live real-

That one offich aside, NBA LIVE 99 maintains EA's lock on the PC basketball crown through a combination of beautiful graphics. improved gameplay, and frenzied

multiplayer fun. If you've got The lones then NRA LIVE 99 will get you through. Now, if you'll excuse me. Twe not some channel surfing to do ... (3737)

When not spanking the CGW Sports Editor in NBA LIVE 99, Dave Salvator can be seen crash-landing assorted planes in JANE'S WWII FIGHTERS.

# **Hockey Heaven**

The Best Gets Better, as EA Sports Scores Big With NHL 99

For the better part of a decade.

### by Gordon Goble

s the years pass, the dark overload of virtual athletics known as EA Sports continues to flex its muscle, expanding its roster to include most every sport known to modern man. Baseball, basketball, professional and college football. socces runby, polf, even Australian rules football-it's all been part of EA's quest for total domination. There's little doubt, however, that the uppermost lewel in the

EA's outraceously successful NHL hockey series has defined, redefined, and set the trends and style for computer sports, and sold a gazillon copies along the www.This despite the fact that knowledgeable hockey farts and some loudmouthed critics-yours truly included-consistently pake holes in the NHL umbrella, knocking this otherwise brilliant name for its artificial intelligence guirks.

It was NHL 98, however, that the franchise becan to show sions of ber finally shedding itself of some of its more bizarre characteristics. And so it continues with the sixth the first installment that'll please

awakening from its gameoky stamin the series, NHL 99, quite possibly just about everyone. Yes, some oddties remain and we'll get into them lates but finally we have a come where substance actually manages



APID WOODS DO SOU

EA Sports crown is shaped like a

fittle hockey stick.

PROS: The bast Noticeably improved Al, more realistic game flow approached animations. spared of car and a near-complete show from start

CONS: Artificial intelligence is a few spective problems from tight comer-

DIFFICULTY: Interwediate SYSTEM DECHIDEMENTS WAS IN

5598, Portium 166, 16MB RAM, 44 CD BOM one, blob-color capable 1MB PCI vision card with DirectDraw compatible fries 30MB herd drive space. an support: 30to Direct 3D and

most other 3D chipsets. MULTIPLAYER SUPPORT: modern (2) NOCE \$44.59

EA's NHL franchise continues to be one the best looking best sounding PC scorts game around Check this out: It's late third period of a Fiver-Leafs game and the score is knotted at 3-3. Each player moves, turns, shoots, and falls based on motion-captured data. Every shot and hit is accomparied by an appropriate sound effect. Arms and legs move separately from torsos, so just because you dodge the body of a player

doesn't mean you'll get by his

outstretched stick

The action quiets for a moment. Color man Daryl Reauch points out that Alexandre Datale scored tonight's first goal then correctly adds. "His coal was the difference in the last game" before entering into a brief discussion with veteran Canadian commentator lim Hughson on the career of Eric Lindros A new unit tumos the

boards, each player topped with

their helmeted real-life face, and

Immediately, a PIP camera

box as John LeClair gets ready to

zooms in on the Philly penalty

return to the ice. Back at even

strength with time running out,

you direct a fine three-way pass-

ing play between Danius Zubrus,

slamming home a 20-foot wrist

the puck is drooped.

Curtis Joseph. Official scorers delay the game momentarily checking for a crease violation (NHL 99 reflects the latest scaleddown crease, by the way) but the purpose-built goal cam proves the play is clean. The goal stands, the rink announcer confirms the

details and the crowd boos vociferously as flashbulbs pop. Lindros and LeClair, with Big John Justifiably gloating, you switch to the replay. Here, you opt to maye from the overhead camera





you'd chosen for gamegiay, watch ing and editing your moment of plany from all eight aveilable and often free-floating cameras. Now you've got the time to take in all the game's visual perks up dose and personal: reflective ice surfaces with team-specific logos, graphic-stuffed boards, flying ice chips, real 2D fans, and an accurate realtime scoreboard sus-

pended above the ice. Sadic you'll also notice that that the rather only 2D puck becomes absolutely mon strous up close (often larger than the goalie's trappert) and may sometimes appear to sit behind the net when it is actually inside it. Furthermore, stick and player perspectives can be decidedly worky

from certain angles. Yet, what's important to remembar is that NHL 99's graphics and audio are so good, so comprehensive, and so far ahead of the competition that they can only be compared to real life. And in that respect, perfection is very hard to attain. The fact is that the game is dose enough to be compared, and that's certainly good enough for me.

### The Play's the Thing As for gameplay, well, let's just say it's getting awfully tough to call this the forgotten element in the NHL series. I'm especially

impressed with the game's depiction of players as martive humans with appendages and sticks as opposed to being mere biobular masses. Players can block passes or otherwise affect the puck's progress with individually mobile parts of their body or stick, not just their trunk, And they'll do the seme to other players too, clutching and grabbing and reaching with a leg or arm-just as in real life. And though EA has always said their players mimic their real-life namesakes, it's never been this dramatic, Nove Dominic Hasek really is the acrobatic marvel he is in the real world, frustrating



potential goal scorers time and time again. Peter Bondra is distinctly hot and cold and equipped with a rifle shot, while Wayne Gretzky is slower than ever but still a play-

making whiz. Furthermore, EA has slowed the overall pace of the name to enhance the impression of unique player attributes and create a more realistic flow. Sure you can still crush players with unrealistically cotachismic bodychecks, but no longer does the game resemble a

twelve-man Ping-Pong match, no fonger do hard slappers travel at the speed of light, and no longer

front of the net with stick raised in a fake shot position before releasing when the goalle inevitably goes down-simply doesn't spell

o o-a-l arrymore. Nor is the old "one-timer" a gustantee of success Now it's usually only what the program judges to be a good chance that buiges the oil twine. Point shots from face-offs, breakaway dekes and blasts, rebounds, snazzy passing plays to an open men-they'll all work, but only if it's a quality opportunity and often only after sustained pressure

Even coalies have become curre adept at scurving from their net at just the right time to scoop up



loose pucks, without negating possible idings. That's a big step in the right direction, as is the change in the face-off routine, penalizing humans who rapidly click the "draw" button instead of trying to time the thing.

Veterars of

meanwhile.

will soon

find that

goal scor-

ing is now

more a

matter of

opportunistic

sensible

play rather

the series.

### We're Not Saving

It Cheats, but... Yet even with all the gameplay improvements, NHL continues to baffle in a few areas, most notably during power plays. For example, penalty-lolling Al teams with a small how formation refuse to break from their pre-defined houndaries even if the puck sits alone and untouched right there in their own comer. And dang it if the game still doesn't magically improve the skill and ability of the penalty-killing team, granking up the goal-scoring chances should a human-driven team get any sort of

Of additional concern is the fact that after all these years the program, not the man at the heim, may decide certain results. To wit, human Washington blows out Al Philadelphia with an 83-39 SOG differential only to lose 6-2. Alternatively, Al puck-carriers have been known to become completely inactive when faced

shorthanded opportunity.

with a vawning empty net just five feet away Why? Because the program didn't want them to score, that's why. Granted, this sort of thing is now exceedingly. rare and can sometimes be chalked up to bad luck, but it does have its impact.

### Gold Medal Overall, though, it boils down to

this. Is this the finest EA Sports NHL game to date? Yes. Does that mean it's the finest PC hockey to date? Yes again. You just know FA Sports will be at it once more this time next year, but NHL 99 is here now and its currently as good as it

Gordon Goble is a NASCARwatchin', sports-lovin', hard-livin' Cenuck who's not affaid to kick Yenkee ass in NEED FOR SPEED IN

# **Platoon Player**

VR BASEBALL 2000 Shows Promise but Lacks Tools of an All-Star

### by Robert Coffey

SPORTS/RACIN

nderstand one thing-I really like this game. It looks beautiful. plays great, and keeps me coming back for more. But Nee Bill Buckner watching a routine grounder roll right between his legs, it falls to execute the fundamental things that would make it the undisputed MVP in PC baseball games.

### **Godlike Graphics**

The first come to use Shiny's much younted Messiah technology. VR BASEBALL 2000 is the best looking baseball title on the market. Nowhere is this more apparent than in the player uniforms-made



knoing for realis lot of octions PROS: Delitro

prophes: los of CONS: Bonder, scade of cirtally annual setuic occasional orashes, uncirithed ment and wishly rips in player polygons;

no chart cotions, no remote play DIFFICULTY: Intermediate REQUIREMENTS: Furtium 200. Wireless 95/98, 12/09 8AM, 50MB hart-stee source CD-858A Directs cirtified sound and video rooks to accelerator provined supports involutes

3D SUPPORT: Ovect3D, Open GL MULTIPLAYER SUPPORT Hotson only (2 slavers).

Per 530.55 Publisher Interplay Productions



pons, the textures are extremely detailed and appear almost rangible. Player animations are smooth and lifelile; unfortunately initial shipments of the game were marred by visible gaps at player joints that left the sluggers with segmented less and detached heads A notch has since been released that fixed this and the weird, hideously anouter camera movements that made tracking fly balk unnecessarily difficult. Sadly,

up of tens of thousands of poly-

the patch hasn't rectified sporadio game crashes VR BASEBALL 2000 serves up a fairly malistic simulation of play.

Pop-ups, foul balls, bloop singles, and routine grounders happen with a true-to-life frequency. enriching the strategic side of the game and greating a big league sense of tension and antidoation. You can even work a walk against a computer controlled pitches Players pretty much perform as you'd expect with the exception of

season and some ungodly home run numbers. The designers passed on the frequently irritating play-by-play

announcing of other games, opting for a simple PA announcement of players as they

bat, Crowd noise

and music round

audio picture, VR

RASEBALL 2000

praise for its use of player audio.

also deserves

out the ambient

hugely claring problems; instead, there are a host of little ripoling things that add up and just kick this game repeatedly in the shins. While you can tweak difficulty levels in all areas of play you can't tweak actual play by repositioning hitters in the batter's box. You can move your outfielders all around the field, but you can't move your infielders at all. You can customize your gamenad controls but only to a point. Don't get me started

on the phenomenally unintuitive double switch interface Lacking a draft, there's no way to customize a league with your friends unless you execute a series of trades and make the Marlins your dream team, Even then, you'll still be playing games against CPUcontrolled misfit squads since there's no way to create a league with less than 28 teams. Leanue. play also suffees from a lack of realistic pitcher managementwhile harlers fatinue (too quickly by the way! over the course of a game, they don't fatigue game to simulated games: expect a couple game. This means you can start of .400 hitters over the course of a Greg Maddus every single game of the season. This sounds appealing until you realize that your buddy is starting Pedro Martinez every day. If you start a league, be warned that VR BASEBALL 2000 supports

### hotseat play only. Hit the Showers

These are more problems-like war-old stats mor CPU nitcher management, and no trade Al. Until VR BASEBALL 2000 develops a more complete game, it's destined to share the field with a slew of other pretenders. GGZ

Easy Out Robert Coffey, a singles hitting It's a shame infielder, will bore anyone who will that this game feion the slightest interest with the doesn't deliver a story of how he managed his softfull nackage. half team. Los Chupacabras, to a There are no division championship.



### What's New With Links LS 1999 Edition:

- . New Mode Of Play (MOP) Game Designer-Create your own Modes Of Play and swap them with your friends . Four world-class golf courses- St Andrews
  - Links Old Course of Scotland, Entrada at Snow Canyon, Latrobe Country Club (now in beautiful fall foliage) and Arnold Palmer's Bay Hill Club & Lodge . 3D Objects, Caddy Tip Book, and two new
    - solfers (8 in all) to choose from

-PC Games

Other Features Of Links LS '99 New PowerStroke Mouse Swing and 2 other swing

 New internet features Include Internet

Spectators and Real-Time Voice Chat

(for editing existing or new sounds)

· Improved easy to play interface



### WEW Phoenix Country Club

NEW Phoenix Country Club of Mivazaki, Japan is one of 25 available add on courses

1-800-800-4880 www.lstour.com Go to #079 @ www.computersoming.com/infolink



# **Choice Drag**

This High-speed Game Leaves No Part Unturned

by Gordon Goble

f all the variants on the auto-coding theme, and reading theme, drop seeding at first seems the most likely seems the most likely choice for a north's tooin', fee heathful, such tenticity-be-duction of the seems o

The obvious answer—as far as Bethedd Softworks was concerned arryway—was a resounding no, because last April's BUNKOUT. Championship DRAG RACING was simulation from the starting line on



our. Buth/OUT asked not that ye carve out the fastest time, but that ye accurately predict how long it would take thine car to cover the course. The driver coming closest to that time without going under

would win the race, regardless of who crossed the finish line first. This formula, known as Bracket Rading, duplicates what goes on overy week at local dragstrips across the country And soil is with

the lates in the BURNOUT seeks, BURNOUT, PULIFIS CHOICE EDITOR, a response to consumer's requests with many new features, such as nitrous colder impedient, educated behavior weights, usation class restrictions, and a superb binmap point stop, of the besic kide, look, and behavior of the game. his not been without soft by the not been developed, the work of the pane. The pull soft is not there will be no multitasking or saved setups of more than eight characters is interest.

Keep on Tinkering

You begin with 1 of over 30 chassis types (from a 1569 Chevy pickup to a state-of-the-art rail carl, add an engine, a transmission, tires, suspension, and more, modify everything so utravascring standards; and table her to the track. The results? You may end up with

car and suffer a separated part or two or perhaps the right over You can moretor the action from one of eight camera angles—including the new and much appreciated in-cockpit view—then watch it all again through the applications until the

through the excellent replay utility.

And if you think darp racing means just validing for a green light then planning it, you're scree incredibly important. Trans-brakes, lime-locks, and now even two-step rever limites all piley an important role even before the con has jumeed an inch from its settings.

position. And once it has, you'll do more than, you'll do more than steer. Maving too slowly? Hit the nitrous button. Moving too quickly? Let off the throttle or hit the binders.

Wildows A nuttern painted Typnell Super bid popils to pig in the holdinglam stateths at or not shown up softer at 1 Hot a D

a cer that blaves up before it's cleared the waterbox or one thus wheeles off the mark and never settles down until the race has ended. Alternately, through extensive work and a careful attention to telemetry, you may also develop that perfectly smooth prediction modhise that never wavers down

machine that never wavers down the track.

On the track, BURNOUT: PCE gives a convincing performance. The shake, rattle, and roll of an over-powered beast as it struggles to remain pointed in the right direction is a treet, as are the cus-

tomized engine sounds and the authentic depiction of tire smoke. Over-rev on the starting line and you'll pop your hood (if you have one) and burst into flames. Connect hard with a wall or a competitor's

And don't forget to shift gees a water gees a many the woy.

Not a Drag

Extreme car markeys may find fault with surface details den't quite mesh or than a given readout is a but off for my act, lish dhord the surface.

financing. I meen, constructing a feedclus furny cet should'be more difficult than slapping together a low grade hot rod. Then again, since the gaste is otherwise complete, I berely missed it. CGET?

Based for life from compring to a strongton growth or processing to a strongton growth or sweet of

game would incorporate the real-

life hassles of a career and/or

Banned for life from competing in or attanding sporting events of any kind, Gordon Goble justifies his existence by beating up on virtual competition in NHI, 99 every chance by acts.

### GAMING \*\*\*

APPEALS Face of strong Face St

CONS: howels; accidental gam; crishus, for 'casy' to badd a millionciator can Cole Sound gameing in 1999 pot sin't right.

DEFECULAT: Internetion; REQUIREMENTS: Purelism 75, Windows 5998, Tolfvill RAM, Yorks hand diffu specie, 2X CO-2014, 239-cole 25984, VSA, 240-compliant value card

30 SUPPORE: 30 lx
MULTIPLAYER SUPPORT: direct connect or modern (2 players), LAN er internet bup to 32 players), one CD per player
hrs: SS 20
Publisher Rethesta Selvenks
lockstile M3

Publishes Betheads Solber Rockelle MD 13801-177 0700 server Refiscols.com

"So I throw this 2 o'clock hitter a nudist cripple right over my and he fists a leather man's pancake. Damn! I'd snapped that cousin's morning journal6 off at the handle with a Peggy Lee! Well Captain Hook decides he's going with the ugly head rook with the deuce 10- even though I'd collared" the banjo 2 on deck! Of course, Mr. Guess don't give any black, 4 so the rook' issues the Annie Oakley and we lose the ballgame."

Sure you can talk the talk, but can you walk the wall?





3D0°

If you love baseball..this is the only game in town." - GamerzEdge Coming this spring

Hoperage that the well is latting protect, let goody design protect. (It is all this hosting design, the continued wealth of 15 february in a best included in a year.)
 Hoperage that the well is latting protection. (It is all the protection of 15 february in a best in the protection of 15 february in a best in the protection of 15 february in the protec

there is the approximation of the Company of the Co

# **Jumping Into Disaster**

101 AIRBORNE Can't Get Its Parachute Open

### by Tim Carter

mpire Software's 101: THE ALEBORNE INVASION OF NORMANDY (101) purports to take gamers into the world of the U.S. 101st Airborne division at, you guessed it. Normandy. Sady it had me wonder ing who thought this would be a good idea.

The premise of the game is good-if somewhat narrowly focused 101 is a turn-based wargame that puts you in charge of a "stick" of individual paratroopers. Scattered, injured, and possibly without some of your equipment, you must overcome tough German defenses using 101's X-COMble game system.

Unfortunately, 101 fails to deliver on virtually every level on which a computer game could be judged. In terms of concept. COMPUTER



that it deserves special mention.

from the manual to the scenario

I read or heard was unbelievably

Mapping Dysfunction

While many a great game has

nical clitches, the flaws in 101 run

The basic idea-a turn-based

WWI infantry game-is a good

one, and one that has not been

done well recently. And truth be

told, some aspects of 101 work

reasonably well. For example, I

hit the shelves riddled with tech-

deeper than programming.

badly written.

technical execution, and gameplay, this idea would have been better left on the drawing board.

### **Error: Parachute**

ming, 101 is a mess, the game crashed frequently, particularly while at my home base. I also suffered numerous craphical of tches. and it reset the graphics resolution

fact, that any enjoyment one might derive from gemenley is compounded by the

fact that in most scenarios it takes a while to get your troops sorted out, armed, and graanized. No doubt this is entirely realistic, and in another game It might actually be fun. In 101, however, the game design and the programming consolre

to make the camer's life miserable. The came's documentation is so awful some useful command touches. such as waypoints I do have a problem, however,

with the way mapping is handled. Simply put, your map is way too small. Even though your missions take place over relatively large areas you can operate only within a very constricted "tile" at any one time. Given the current massive memory capabilities of the typical PC, I cannot imagine why this is necessary for a state-of-theart strategy game. To make matters worse, you cannot exit a man while there are any live Germans. left on it. Bypass the enemy?

didn't have a problem with the

easy, and the game comes with

interface ---giving orders was

Perish the thought. briefings to the offhand comments 101 simply doesn't operate well from your men, almost everything as a game. For me, there's nothing worse than having to constantly reload a saved game to overcome some random occurrence that makes victory impossible. Yet 101

is riddled with such situations When you leave England (after spending a fair amount of time selecting and outfitting your men) you run the risk of having your transport shot down before you cen drop. Game over if you survive the flak, each soldier that lumps runs the risk of being shot on the way down, blown off course and lost, or injured upon landing, it's not unusual to lose up to helf your men before the game even starts. I once started with a surviving 5 out

of 18. Game over Again, this might be realistic, but it makes for a lousy nameexpectably with the incredible number of technical flaws that you are subjected to. Take a filter on this one. GGZZ

Tim Carter is now immersed in CHAOS GATE, though he hopes that a good turn-based, squad-level WWW game will ship in his lifetime.

### Will Not Open Beginning with its program-

in Windows 98 more than once. When the game is working, it

runs terribly slowly-so slowly, in pretty much lost. This problem is

> K One of my few he has an M2 carbine mately has dropped rig man tank, it's probably time

terr-based WWII infantsy combat. OFFICULTY: Interpretate. REQUIREMENTS: Pursium 133. Workers 95/96, 16M3 RAM. 250608 hard-drive space, Ex. CD-ROM: supports Windows correctible spand and SVGA 3D SUPPORT: Noon MULTIPLAYER SUPPORT TONY ONL. work and internet; 2 players

APPEAL: These

COM-unia ture

infantly combat.

CONS. Slow

who closed blockers

MPLITER GOMING WORLD . FERRUARY 1999

# 

THIS MONTH WE PLAN TO GET THE LOW-DOWN ON A

GAME THAT LOOKS TO REVOLUTIONIZE THE REAL-

TIME STRATEGY CEURE

THE GAME IS WARZONE 2100

AND WE ARE CHATTING WITH JIM BAMBRA, DIRECTOR OF

PROJECTS AT PHMPKIN



th all the strategy same clones and numerous sequels what makes Warzone 2100 better than the rest? Werzone 2100 is fully 3D with indepth game play and bilsteringly fast action. The graphical effects. are stuncing and male use of every aspect of the 3D technology. The



3D is used to create a very vibrant game world where artillery shells



arc over mountains and Strike VTOLs (Vertical Take-off and Landing Aircraft) roar overhead. Being able to track units using the camera further enhances this 3D experience. With

this feature you can order a VTOL stake then follow them in as they fly down the valleys then fivover the top of the mountains to fire their rockets at their target.

You can even switch between groups and watch the carriera pen to each group, creating a very dynamic gaming experience. Once you get used to rotating, appring and tilting the map, and tracking your units with the camera, there's no going back

to stuffe 2D displays. Full use is made of 3D accelerator

cards to create vibrant lighting and explosion effects. Rockets fine with a smoke trail artiflery and cannon shells establease gratuitously, and flamers ignite coomy units and

structures When units take damage they emit smoke the more damage, the more smoke

When they explode, shards of metal and concrete fly across the screen. You can always spot where the action is by the amount of smoke and explosions going off! Werzone 2100 is set after the nuclear holocaust. The main drive

in the same is the recovery and research of artifacts from before the nuclear holocaust. As these are researched, new weapons, propulsions, structures, etc. become available to the player. As a result, players can decide what technologies they want to research as the game progresses And as artifacts are researched, new

vehicle types can be designed.

The design sequence is very easy to use, it uses three components: Turret, Body and Propulsion As research progresses, new components become avvilable. meking for thousands of different vehicle designs. Each weapon has its own characteristics - flamers set enemies on fire, but are vulnerable to enemy attacks, Cannons are creat for damaging other tanks and have great damage resistance. But for killing infantry and cyboros you can't beat a machine-gun. Antitank rockets do lots of damage, but are slow to fire , you soon learn to use hit and run tactics with them. Mortars can fire shells over hills

and howitzers can fire over large

distances



### Published by **EIDOS INTERACTIVE**



Am Earthur, Director of Projects a

The propelations add even more options. Wheels make for very list which she will be dramps capacity. Wheels make for very list which she will will be dramps capacity. Put trade and your traff doesn't make as for more damage. Howers give you increased spread and open across water, but are very walterable to enemy attacks - keep them moving and you'll survive; let the enemy guns lock on and year'n deal.

Another key point is the fully. essending campaten where your base lasts throughout the first campaign. The first mission is to estotish your base. In subsequent missions you approde the base and add more defences and fortricepens to it. We achieved the by using large maps that expand as the game progresses. Dace the first mission is completed, the map expands to the south. We then fly in a transporter that lets the player fly units to mission sites on different maps. While on an away. mission you still have access to your factories, research factifies and units back at home base. You can produce more tanks and have them flown in to the away maps as reinforcements. So you got to select what reinforcements you need. deciding on the tactical situation and your own style of play.

After these away missions the action returns to an expanded companying may fine time the energy mode your base. As more leave the missions underly, me may appear and the conneying may expand a fill make may appear and the conneying may expand a fill make fill one with a configuration and prior revolution. The second and prior revolution the second and find companying fill was similar structurate but with more helds and makes as the action may held so will be a more as the action may held to do a more action of the configuration of the second and the se

increased in experience and went from one mission to acrather. The open ended campaign system enables their areasing, it is possible for the first flow units you stands the game with to activate elite stage, and stell be allow at the rest of the game host that high record whiches would be much use to you more the more high the wappose, came the plays but by recycling you wreture units you can trapfair their experiences to bugger and better whiches an them or senements.

> And finally, we have dedicated commanders who direct the fire of other units and who can order

there ready to the their stacks over the bit. Only your base. All they need so do is git a Sensor unit to see your unit and they can open fire, safe behind the hill from you.

As Linearconed earlier, the VTDL harraft make offers use of the 3D servain as they fly abrough walkeys and bemb the enemy. It leoks very dimmarks and gives you a great leeling as the tank huster missiles take out the enemy armos.

Meanwhile the enemy anti-alicraft batteries are filling the sky with flak and SAMs It's real touch and go whether your VTDLs will make it out of the target zone or net in old

nenforcements directly from

Other than graphical eye candy, how do you utilize the 3D terrain?

The 30 ternate is vital to the game play it gives Warzone 2100 true line of-sight and fog-of-war effects. Until you drive around the hills and mountains you can't see what's hidden behind them. Enemy enough by butteries may be lusting.



style 2D isometric games your alrouft are just a group of sprites moving over the landscape. In Warzone 2100, aircraft really

### Why a full 3D game engine? What did you think it would bring to the game?

A 3D game engine gives you a much more dynamin and exclusienfromment to game to separate and top-down gaming worlds are abstact regressionations of neally A 3D ongoing gives you the facility A 3D ongoing gives you the facility that you're self them. It's very exciting watching units manneurum over enables footby ternin, particularly when you can reside and till the landscape of that you yet at what anally our view them.

Also only in 3D can you watch mortar shells fire over hills and are down onto enemy usits. With 3D we could have arrive alroraft actually flying above the terrain as they led report a load of recitated Without 3D this units appear no efficient the any other. A 3D gaming world presented so many exciting appartunities to us, that there was simplying affect may be would have a several warrance of the area several warrance 2100.

Why is the unit design so important to the game?
The research and design sequences

in Vargane 2160 seally agen upyour options as given elapset. You're never restricted to the variation we give you'll the 3-post design system of turnet, body and propulsion offers over 2000 possible contributions. Using it you can create list soost vehicles, it lambering main bottle tanks, after aircraft, and amphibisons howevery? it gives you the opportunity to "create loss of different vehicles to smit your style of play and current reliation objectives. Even similar vehicles will exercise the services are reliation objectives. Even similar vehicles will exercise the services and the pro-

differently if you change the turret from a hopey cartoon to an antiaircraft battery. It no longer



functions as a battle tank, but as a very effective aircraft killed in many ways its like the real world - in World War it he Md Sterman chassis was used to turn out a wide variety of vehicles all suited to different contact roles. Waranne 2100 maloss wollable so many

#### Every RTS game claims to have the latest and greatest artificial intelligence. What really makes the Al in Warzone 2100 really stand out? It's the way units react and find for

themselves. These guys don't stand around to be shot. If fired on they'll respond and open fire on the enems Boute finding is also

### SPECIAL ADVERTISING SECTION

### Published by EIDOS INTERACTIVE



excilent - order a unit from one contre of a map to another and it will find its way. Them are even icons that send units back to base, or order them to head for the nearest repair facility. We've also got pleny of player committable settings that allow you to set when units retreat, the ranges they empage at, whether to hold fine or not. The enemy Al is also very sophisticated. Enemy score group, arther tears for your units, them

not. The enterp A is also very spelledized Energy scool project spelledized Energy scool project spelledized Energy scool project spelledized Energy scool project spelledized pas a namosed spelledized Energy in the control project spelledized Energy in the control project spelledized Energy in the Energy in t

Storythin plays a big role in RTS games, what's the backstory in Warzone 2100? Warzone 2100 stats with the moder halscant that wises out children and the player is part of a goup of turkness who sake shifts in an abandened military base while hery wait out the macker white hery wait out the macker white hery saler you energy to begin the Project - a plan to relatify a flow Weld from the subset of the and the player subset and a flow Weld from the subset of the and a flow Weld from the subset of the and a flow Weld from the subset of the and a flow Weld from the subset of the and a flow Weld from the subset of the and a flow Weld from the subset of the and a flow Weld from the subset of the and a flow Weld from the and a flow a flow a flow a flow Weld from the and a flow a old. You lead Teain Alpha, one of three expeditionsy teams sent out by the Reject to more exhibition for the property of the sent property of the Western Sector when you seek Western Sector when you reach for antifect quickly tunes not a borde for annival. A more technologist, solvened force is also present in Western Sector and seeks your destruction. This force is being computer passarie that seeks to entile your help. When you 'middle'.

the Northum Sector, this time controlling an even mire advanted attemy force.

As the game progresses, its hatted for you grows, as does its among of wagoost, I gains accust to ruice and fires then against you-the world spin empts in nuclear freatoms and mass destruction. Still it jobs and seeks remain against you. It was thrinky is

stonly overaled, as an its nothers, and its ultimate power to compit everything it comes into contact with... And once it has you, it's hard to except Many will die before it is flitally defeated and the world is made and, it's a sour on under strikes, strink cortex, and a struggle for survival it is a hostile world middle by a mad computer.

From what I have seen of the game, there seems to be a strong emphasis en action/battle. Was this a conscious attempt to move away from games which have become begged down in producing and researching hun-





dreds of wnits?

To a single extent, yes. With Warrons 2100 we wanted to capture the him and excitement of real-time combat and exploration, while making it really easy to carry our research, design and manufacture. The aim was to encourage you to have your base to explore the world our there. Only by delarg to can you recover the partitions executed to further ware.

by delay so can year necessor the artifacts needed to further year necessish, and find the resources required to expand you base. You need to sear out the maps, then attack and capture key locations. Warzens 2100 you carnot simply shakeds and anness hundreds of units - you technology will remail at a low level and your power supplies will not be up to it - get out three and fight!

How will multiplayer work?

Egyl signers are supported on local attention that you on just for the or Effectionseccons simply by married it from the regions Metru. Once on the you can select to just on the control you can select to just on the control you can select to proper to be control you can publish to thip you can be published. The published with selection of the control you published you will be an selection of the published you will be selected as the published will will be selected to the published you will select you make you will select you make you will select you will select you make you will select you select you will select you sel

We'll be regularly supporting the

multiplayer game with new maps and technologies, and various competitions are planned to take place on EidosGames.com.

Who is Pumpkin Studios?

Pumpkin Studios are a recent startup company with a long track record, Nick Cook and I set up

record. Mick Cook and Feet up.
Pumpleh Studios in August 1996.
We were proviously at MicroProce
where Nick was Head of Art and-1,
was Head of Design. We recoulted
Alas Microan, our Pead of
Programmels, in August. Other
nembers of the term joined sharing,
afferwards in September - Significant
afferwards in September - Significant
Other toan members joined up the



following summer. To be honest most 14 out of our 18 staff at ore time or other pervisuely worked a MicroProse on many different projects, so some of us have been together longer than we care to remember.

WARZONE

# BRAVEHEART

Braveheart from Eidos Interactive and Red Lemon Studios finally marries two genres into one epic gaming masterpiece. Braveheart features a real-time, strategic empire building, strategy game coupled with a majestic 3D world.

wheart will feature all the characters from the Academy Award winning film in their toric roles. The game will also feature movie clips, character models, and a voice over from one of the lead actors, (We'll keep you quessing for now).

Braveheart allows the user to choose any of the soteen major clares veion for the crown of Scotland. Each Clan is historically recruduced in land, resources, and demeanor. In the 3D world, each Clan will have its own unique uniforms (kilts) and colors

The developer Red Lemons Studios.



aid of Secras Wallace of the Clan



William Wallace and actor in "Braveheart"), they have lownship crafted an historic opic with an incredible level of detail to Scottish

is Braveheart, the user has two goals, unite the Clars of Scotland and become King. Once this is accomplished the user can then chose to invade Fooland and attempt to conquer their oppressors.

In the Empire owne, the user has access to an incredible amount of world control. From the economy to espionage, the user can do it all OR select his advisors to manage it and focus on the battles.



At anytime in this real-time world the user can enter the 3D world and view the renmess of his town construction or view the aftermath of roids

Four seasons, and twenty four hour days (day/night) are represented in the 3D world. If you choose to create a castle, it does not magically appear it will take several years. However, at anytime a rival Clan or the English may sack the town and destroy the construction

Because of the game's freeform structure, every decision and mission the player undertakes has a direct influence over the destiny of his clan. No decision is one determined for the player and the name is not level based. A defeat on the field does not necessitate a relead of the name, Indeed, the loss of that particular battle could be a sly tactic to full the enemy into a false sense of security

There are authordic bottle formations that actually affect combat outcomes. There is an advanced combat A.I. that



incorporates a wide variety of strategies for field combat and castle sieges. Braveheart also features night raids, burning towns, caravan ambushes, and midright assassmanions, all depicted in realtime 3D.

A sophisticated camera system allows full control of the players wew of the battlefield from any angle, be it 3rd. 2nd or 1st person. This allows huge flexibility in how the player manages his battles. Single man incursions and mass combats featuring dozens of independently intelligent troops are easily controlled using this system.

Battles can feature over 700

multiple clashes over a 10KM

battlefield. Each unit is skinned

polygonal units engaging in



and boned, added to the realism of combat and combat injuries!

For the final game, a comprehensive tutorial will be offered: 3D battle creator, access to all the famous battles (Falkirk

Stirling Bridge, etc) in which you

can play either the Scottish or

English, and a comprehensive

multiplayer game,

# Braveheart -The Movie vs The game.

ith a game entitled "Braveheart", there is no need for a detailed background of the storyline for anyone who has seen the movie. In the movie, the

most recognizable character is undoubtedly William Wallace, However, unlike the movie, in Braveheart, the game, players are not limited to Wallace and can choose from a number of character to lead their clans. Each leader has different strengths and weaknesses in leading their clans. Below are some of the in-game character sketches based on the historic characters that were portrayed in the movie.





- Famed leader of the Scots

### William Wallace



- Heir to the Scottish throne. master of diplomacy and leadership.

### Robert the Bruce





diplomacy, but excellent at

### Stephen Feherty





Clan Campbell wise in combat tactics and extremely loyal.

### Chief Campbell

You can find more information about Braveheart at www.cidosinteractive.com/braveheart/index.html



Go to #150 ♥ www.computero

# A closer look at **EVENANT**.

Revenant is a traditional RPG with some unique twists. Tell us what makes Revenant

an appealing

game.

Revenant combines the traditional elements of a Computer roleplaying game (multiple skills, a variety of weapons and combat styles, and an intriquing spell system) with those of a Console RPG (well crafted story-line, over-



offers over 32 Monolayable characters to interact with

the top spall effects, and an arrady combat system). We think that we have combined the best elements of both tures to bridge the pan that has existed between the Console and Computer RPG genres for far

too long. Final Fantasy VII went a long way in closing this gap, and we think Revenant can complete the job. What does Revenant bring to the CRPG genre that is new and impossible?

An interview with the US Producer, Matthew Miller of Eidos.

Well a music of things First off we are utilizing a combination of 3D graphics and static pre-rendered backgrounds. The result is absolutely sturning. We enlisted the aid of fantasy artist Den Beauvais in doing some of the concept art and the result is amazing, You look like you are playing right in one of Den's pantings! Also, we have a more interactive combat system than most placers are used to It's all molified so you will have to think on your feet and it's more detailed in its action than simply dicking the mouse to attack. We have different strikes and combination moves that your character learns as you advance in the Revenant world. The host nort is that all the cool combos and

moves are primarily based on your

character's skill, not the player's It looks like you are doing all these cool fighting-game style moves, but actually the game takes your character's skill into account and extrapolates what you are trying to

### Tell us about the manic system and how it is used in the game.

Ahh, the magic system. This is our plece-de-resistance. We have a detailed magic system that involves finding various Talismans that are hidden throughout the game. Most of these Talismans have no cower on their own, but when put in the proper combinations, and with the appropriate skill level, you can create effects such as a meteor strike, fireball, chain-lightning, and the end-all-be-all of spells: the Apocalypse. All the spell effects are ponerated in 3D and take advantage of the great graphical effects that the major 3D cards give you, so they are top-notch! Even the simplest of

### spells is a visual feast! How much gameplay is there in the game?

We are looking at a game that would take an expert Role Player around 30 to 40 hours to complete.





### Pupeshed by EIDOS INTERACTIVE



With over 25 types of coordins to dispuse of, you have year work out out for you The average player will get a lot I think it is very important. Most more time out of it, as he/she

### attemens to find all the cool things there are to find! Will there be daynight and weather cycles?

We have an arrazing Eghting system. that allows us to change the lighting on the fly, so we have everything from golden sunsises to firey sunsets. We even have moonlit nights! As for the weather effects we don't go overboard, but the player is capable of controlling the weather through spells, i.e. summoning hunicanes. tomadoes, and blazzards.

### Multiplay could be one of the most important facets of this game. Tell us how you plan on setting it up.

Well, originally we were planning on having co-operative multiplay through the storyline, but upon closer examination, we determined that the story of Revenant didn't really lend itself to a perty of characters. The story was conceived as a sincle player game from the start. What we are planning on including for the multipley is the ability to play certain areas of the game (duringeons, caves, terroles) as single levels for competitive play for up to eight players. We have four character classes to choose from, each with their own powers and abilities.

The art for Revenant is stunning. How important is this to the gameplay and the whole Revenant Experience?

corners out there have seen fantasy. art before and the level of detail that those artists out into their work shows a devotion and love for the genre that a real gamer can empathize with. I think that Revenant's art is on the same level as those brillient works of fartasy art. What we acid is the fact that it is interactive. Instead of dreaming that you are that character in the painting, you control him, move him. Soft with him, and cast spells with him.

### Give us a quick synopsis of the story.

You are Locke D'Averare. You have been dead for a millennium. You start the game resurrected and have no idea of your past. You are given a

quest to rid the island of Ahkulian of this evil cuit, the Children of Change. The daughter of one of those who brought you back has been kidnopped by the cult. You aren't given much choice in the matter You have to rescue her and stop the cult. As you play the game, you find out your past is far more involved in the cult then you can possibly imagine.

### What are the system requirements for the game?

You are going to need 32 megs of RAM, a Pendum 200 or better, and if you want the really spectacular spell effects, a 3D accelerator card will be needed, but it's not required. If you have a gamerod, then you can



When can we play Revenant?

You will be able to enter the world of Ur and visit the island of Alkui'on in March, 1999.



control Locke with that and get an immense amount of control at your fingertips.





# Published by EIDOS INTERACTIVE

# pells

### Phase Spells:

The Phase Tellarran manipulates, the dimenderal Phanic of Ur listel? This call be a time space issue, or an out-of phase issue, such as invisibility. When combined with additive tallarrans like Chase and Power, Phase spells can be very powerful.

An example of a Phase spell would be invisibility, which uses a Phase Tailsman in conjunction with the Cheos and Body Tailsmans.

### Earth Spells:

The ground beneath one's feet is at your command with the Earth Talisman. This talisman allows the spelicaster to manipulate the rocks and dirt everywhere on Ur, and even beyond. Experienced spelicasters can add the Chaos Talisman or even the Power Talisman to the Earth Talisman with deadly results for the enemy.

Adding Chaos and Sky tallsmans to the Earth Tallsman will give the elicaster control of chunks of rocks in the heavens above which can then be rained upon the battlefield. This spell, which is call the Meteor Strike. is one of the most difficult to cast. Only the best spellcester can pull it off without killing himself.

### **Lightning Spells:**

The power and fury of the storm is contained in the Lightning Tellsmen. When first touched, the Lightning Telismen will give off a small static shock. Lightning is one of the most



is spell is a commination of a fire swimm of bilggerd cost simultaneously - an

ungredictable forces which can be as much a boon as burden to the spellcaster. The spelicastar can combine the additive talismans of Sky and Chaos and add sogrecome effect to the standard of ectrical

### The very potent s the Death

is the Death Surge spell which complies the Sky Talisman and the Lightning Talisman. This allows the spell caster a

### Life Spells:

The Taltsman of Life is one of the most powerful talismans out there. It was created to magically heal wounds and restore the lite-energy of beings. The Talisman of Life can be combined with severa live talkmans, such as motion and power to give an added effect, J.e. healing more severe wounds and in its strong

incornation, bringing the dead back to life. An example of a Life Spell is the Resting Spell. This spell is created by adding in the Motion and Body Tellsmans to the Life Talisman. This il will take away some of

## the fatigue that the spelicester feels. **Body Spells:**

Body Tallsmans differ from the healing aspects of the Life Tallsman when used as a Primary Tallsman. Body is the power of the soul and is rate life

systematice. When used with additive talismans, the spelicesare creates effects such as the Peralya spell where a fee can be sapped dead in his tracks. This allows the spelicaster to dispose that foe at his own convenience.

### Frost Spells:

Two ends of Ur are covered in ice and strow. The native spelicasters of these areas tapped into the power of Frost and created special tailsmans. These talismans are extremely cold to

the touch, and are constantly red in a crust of ice This is one of the most fledble of the Ismans and nearly

every addrive an can be mbined to the frost Talisman By adding the Sky and Power

tallamans to the Frost Talismen, a high-level spelikaster can summon an Ice Storm to pelt his enemies with. This spell is most effective outdoors as oppor have less access to she they will surely want to seek

### Flame Spells: The Fire Tallsman is one of the strongest primordell forces. Flame

Talismans enable the spelicaster to safely utilize the power of naked The An experienced spelicaster can combine Flame Talismans with the Modion and Chaos Talismans to produce the extremely powerful Fireswarm spell. Rurmus abound wheat is Malling and History as about a Helfire spell that uses a wide veriety of additive talkmen and is fabled to be the cause of the Great Cratter of Navaroo.

### Wind Spells: Everything from a centle breeze

access to be, and one can near the towling of wind when placed to his ears. When the Chaos id Sky additive talismans are combined with the Wind Wisman, the spelicaster can



create a spell that would even intimidate Mother Nature! The Maelstrom spell assaults a group

of enemies from a variety of random directions: very disconcerting! This spell is constructed with the Wind, Choos and Sky Tellimans and takes a spelicaster of some renown and telent to create.

# **Talismans**









# Not Too Special K

### A Konsumate Klone, KKND2: KROSSFIRE Won't Klaim the Real Time Krown

### by Tom Chick

can only imagine the development meetings. "What about Fold, Spindle, 'n' Mutitate? Come, See, 'n' Conquer? Wash, Rinse, 'n' Reneat?" When someone came up with Knish, Kill, 'e' Destroy, the name stuck Strangely there's no mention of what the initials stand for in this secuel to KKND, an RTS that stood out from the legion of clones with its silly name. But even with KKND2, there's no reprieve, the subtitle KROSSFIRE evolves images

of Pat Buchanan and Michael KNN (the Kable News Network). Kollect, Klick.

'n' Kommand KNOSSFIRE preserves the expected RTS mechanics with only a few

variations. In fact, it's almost a

ATTEAL: RTS fors respaix, markog with spell abilities PROS: Balanced

architecture for long hard-drive life. CONS: Almost no know story fells for 'spend'4 tricks'; awful minimage DIFFICULTY: Advanced. REQUIREMENTS: Fortum 133

Wordows 95/98, 16WE RAM, 160MB Fanti-divo space, 4x CD-ROM, 2M3 3D SUPPORT Res MULTIPLAYER SUPPORT: LAN.

return to the basics With only a single resource and no units with spell-like abilities, this game hearkens back to COMMANO AND CONQUER with its clean emphasis on the messy art of combat. The balance is slightly skewed to favor the defensive, so there are no quick and easy tank rushes. But if that's your style, the game ships with a surprisingly comprehensive unit editor in fact, with the exception of a unit graphics editor and a few of the map tilesets, KROSSFRE has completely open architecture along the lines of DARK REKEN.

Using a shallow veriation on STARCRAFT's three races, KNDSSRRE Kinsley locked in mortal kombat on pits three postnuclear holocaust races against each other, human survivalists who holed up in burkers; organically based mutants who weathered the radioactive firestorms; and the Series 9 agricultural robots who found themselves out of work. These three races play by the same mechanics with only minor exceptions But they're drawn with bright, bold cartoonish graphics and nicely fleshed out in amusing premission briefings The game's intro-which looks like the

sort of expensive cinematic only

Activision or Origin can afford-is.

indicative of the entertaining multi-

media flash you'll enjoy during the

campaigns. In fact KROSSFRE's humorous atmosphere is rivaled only by its solid gameplay. Instead of units with special abilities, KROSSFIRE lets research one component at a time. This introduces some areat wariations in gameolay. Do you build mobile radar to scout your perimeters? Do you protect your infantry.

you build customized units that you in a cloaked, armored personnel carrier? Or do you just slap the biggest gun on the biggest chassis and sit out the long build time? Furthermore, units can become veterans with experience and there



are some impressive. superunits hidden in locked bunkers. Understanding the dis-

tinctions among the units and taking advantage of your special units is the key to success. Write this is indeed a form of micromanagement, it's central to garnenias KROSSFIRE is not about resource manenement, and it's not about dicking special icons in the heat of bat

tle It's about carefully managing your units in combat. Drag-selecting a borde of tanks and filtroing them in harm's way will not get you very far

### Kunning and Klever-Not

The All is actually good at assembling efficient groups of varied urits, but it falls prey to many of the standard RTS tricks. It will chase decays repeatedly into killing zones it doesn't vary its attack approach much; and it doesn't build good defenses around its bases Much of this is avoided with some scripting in the single player campaigns, but this results in some annoying puzzle-oriented missions. A flexible skirmish/multiplayer mode, along with the game's wide-

open architecture, extends its hard drive life long beyond the three sinole-player campaigns Oddly enough, skirmish games can't be saved, this is unfortunate since you can squeeze up to eight players into some epic wars of attribon.

The interface includes all the hells and whistles we demand in an RTS, but the minimap is a travesty-showing only a slightly wider area than the moin screen. Would someone explain to Melbourne House that minimaps are supposed to show the entire map at once? And while you're at it, tell them to lay off the K's. GETT

Tom Chick has petitioned the courts to add a second K to the end of his name. He is still plinking away at STARCRAFT.

# **Just Another Bug Hunt**

This Real-time Strategy Game Rewards Patience, Not Reflexes

by Loyd Case

th Gerger-Me dien monsters, a spooky musical score, and weapons crafted out of ordinary objects, ENEMY IMPOSTATION IS obviously inspired by the Alien

movies. Although it's a real-time strategy game, it's paced more like a turn-based game, rewarding patience over frantic mouse-clicking. However, be warned that this strategy game has a strong puzzle element. It's not quite as rigid as COMMANDOS, but you can't afford to lose certain key characters.

### Riddle Me This

In the opening cut-scene, a meteorite crashes on a world recently colonized by humans. Out of the meteorite slithers a horde of

APPEAL Fact of ay gentes looking and time senters. ROS: Nood to

opical puzzle solutions. CONS: Glarky introface; characters are DIFFICULTY: Intermediate

REQUIREMENTS: Pretium 200 Windows 95, 32MB RAM, PCI video card with 2008 of BAM, Se CD-BOM, sound

ID SUPPORT Have MULTI-LAYER SUPPORT: IAN or Internet (2-4 places); one CD perplayer.

monsters that slowly take over the colony sites. As you unravel the mystery of the alien horde, you'll ask yourself some questions. Why do the advanced military weapons take so long to reload? Why do these fearsome aliens fall to the punching and kicking of a handful of marines? Why, when faced with three perfectly good elevators, do all the characters wait for the same one? Why are the orecreen characters so tiny that it's hard to click on them? Why can't the military

leader unlock or lock doors? When you spend more time thinking about the game design and its mechanics, you know something's not quite right.

Still, ENEMY INFESTATION has certain charms. I liked the fact that ordinary items. Hos fire extinguishors and hair spray cars, would occasionally serve as useful weapons The individual characters seemed to have, well, character. though occasionally their repetitive speech became tiresome. Multiplayer is co-op, with the

human gamers taking over one or more characters. You can even play through the campaign in mission order. It works great, and have ing a human ally makes the game much more fun. The worst part of the game is

the clunky user interface. The game nuns at 800x600, but it almost seems ffee a last-minute decision. "Hey, 640x480 isn't good enough. let's no to Rob." It looks like the resolution out scaled up without resizing the art, leaving onscreen characters quite tiny and frustratingly difficult to click on You can click on the character's portrait, but sometimes when a group was selected, clicking on a portrait did not deselect the group. On more than one occasion Limposed evensone's weapon rather than just a

single character's, Luckibs a real-

time strat convention came to my

rescue: With relatively few units, I could simply assign key characters to a numbered hot-key.

#### Murder by Numbers Most missions follow a set nat-

tem. First, gather everyone together. They are often in widely separated groups, so this can be quite a challenge. Second, find the medbay, which allows you to heal your characters. Third, if there's a weapons research objective, figure out how to solve that puzzle. Fourth, go bug hunting. Fifth, wrap up any other objectives. The pacing and number of units are such that you can move units around carefully (and you should), so it doesn't feel as frantic as most real-time

games-something Languedated.

an orbital beam weapon struck. After a nail-biting rush through the facility. I missed the goal by 4 seconds, only to be told that they were kidding and I had another 15 minutes. Rather than feeling grateful. I felt cheated because I'd pushed so hard.





A few of the missions break this pattern, and these missions were the most entertaining. In one, the mechanic found himself alone after a fight, with everyone else incapacitated. You had to froure out how to use this one. rather limited character to get the others up and healthy. In another mission, the bartender had to sneak past some and flood a mining tractor with LOX, killing a bost of aliens. However, some of

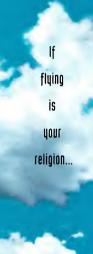
the unique missions proved

arnoving. One mission had a time

limit-15 minutes to finish before

Bottom line? ENEMY INFESTATION assines to the essality of X-COM, but falls short. Without a research tree. or resource management to present challenges, it becomes more an exercise in puzzle solving than a strategy game. If you're seeking "real-time frenzy," as the box states, look elsewhere. GGTZ

Returne hardware minus and aways. Lavel Case manages to find time for two daughters, a wife, a quinea pio. His yard is a desert. though. His latest gaming passion IS EUROPEAN AIR WAR





"While the quest for the "Holy Grail" is never ending, Falcon 4.0 will come the closest to it that the flight sim world has ever seen."

"One of the most ambitious flight sims ever attempted."









# Abra-Ca-Blah-Blah

It's a Better LORDS OF MAGIC, but So What?

### by Tim Carter

erhaps the denizens of whatever alternate universe that contains the secrets of marrir simply don't like computer games, Perhaps game designers haven't appeased the

appropriate celestial powers Whatever the reason, strategy games about magic seem, well. cursed. Even the CGW Hall of Fame title MASTER OF MAGIC Init the market riddled with burgs, unbalanced play, and a host of memory rephlems.

When I reviewed Sierra's LORDS OF MAGIC (LOM) some time ago, I came down harder on it than a fire demon souishing a



wood nymoh between his toes.

And with good reason. The once nel had rumerous programming and gameplay problems. Now. Sierra has relaunched the game as LORDS OF MAGIC: SPECIAL Engrow (COM-SE), buryding it with a variety of editors and a few extra scenarios.

Magical Facelift LOM is a turn-based strateov geme set in a fantasy world. You

are one of eight #ligions (each tied to a particular race) fighting. for control of the world. Each religion has particular attributes and natural affes and enemies You move your armies and heroes during your turn, but when comhat is injured you zoom to a tartical map and fight in seel time. Sound familiar? Still, there's noth-

ing about a tried and true formula that makes for a bad name. LOM SE is a much better product than the original. The bugs are gone and there's a smooth running and relatively fast game interface. Even the All turns seem market-through Eve upgraded my system since the original, too.

Many annoving design quirks have been cleaned up. Enemy forces now refrain from hostile action until your diplomatic relationship with them deteriorates. Also, trading and diplomacy is much more functional. You can still sometimes convince your affect for opponents) to make a had deal, but ripping them off

will burt your diplomatic position. Sorry Sorcery

Still the question remainshow good is a functioning version of LOM? While the game certainly isn't bad, it doesn't quite reach the lofty heights of addictive fun

to which it clearly assures To some extent, this is a matter of pacing rather than pemeries. For instance, the key to long-term success is developing experienced units capable of going toe to toe with the tougher monsters and bad guys. Keeping your units alive long enough for them to gain

experience, however, requires that you gest them after each battle to heal. The problem is, due to the scant initial resources, you may find yourself fighting one battle

then sitting around weiting for your few men to heal for three or four turns before venturing out again. This quickly becomes duff. Later in the game there's always someone able to do something, but your empire is probably large enough by then that you must gamson much of it. Again, you may have only one or two attacking stacks, and even with magical assistance

they'll have to rest between I'm a big fan of games that force you to make the best of scarce resources. but I sometimes found that assets in LOM-SE were so

scarce your army can become paralyzed just defending the homeland, Wandering monsters abound in LOM:SE-without a few defensive forces your entire territory can quickly crumble. Ultimately LORDS OF MAGIC: SPECIAL FORDON ends up a bit top slow and with too few units. spells, and other goodies to make

it compelling

How Sierra has the nerve to charge the original purchasers of LOM extra (even with the 520 rebate) to get what is essentially a massive patch is beyond me, If you managed to avoid paying for the dysfunctional version of LOM, the special edition may offer the manic fix stratecy corners have been desperately searching for-but it's unlikely to feed your addiction for long. For a truly great magic game, the rest of us will Just have to wait. AGY

Tim Carter is a freelance writer and editor in Vancouver. B.C. His "Fix Bug" spell has wet to work properly; but his research continues.

# APPEAU Down of

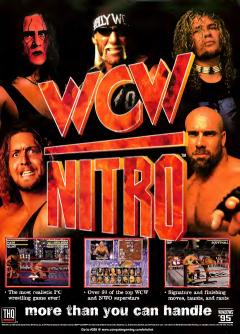
work a working PERCES OF MICHE

PROS: Clear foreasy strategy garre with much diversity, unlike original, it's an actual, working gome. COMS: Slow pace; too few units; too first options; owners of the petoter? are DIFFICULTY: Intermediate

REQUIREMENTS: Portium 100. Windows SS, 16W8 SAM, 1875AR basel drive space, 4x CD-80M, SVGA vid:o cast, sound card, 29 9 modern for remote class 3D SUPPORT: None.

MULTIPLAYER SUPPORT: Internet via WOMNET, LAN (2-4 players), senal connection and modesn (2 players)

COMPUTER GRAVING WORLD . FEERLARY 1993



# A Dash of Colonel Mustard

Hasbro Tries to Buy a CLUE (and a LIFE, and an OUTBURST)

Clue \*\*\*\* Publisher Hashro Interactive

www.hasbro.com nike Hashro's first attempt to bring the boardsame classic Clue to the PC, its second release. CLUE: MURDER AT BODDY MANSION, isn't a dismal failure. The game is visually stunning, complete with a stylishly rendered Boddy Marsion (done in a DtABLO-style isometric perspective) and atmospheric music so sexy and mysterious it qualit to be a movie soundtrack. Each time a player pronoses a combination of killer weapon, and room, a brief animation plays you watch from the victim's point of view as Colonel Mustard swings the candlestick at your head or as Miss Scarlet sinks the knife into you with a gristy spuposh Just watching the characters wander around the tastefully furnished excess is a pleasure.

But what does all this have to do with the game? Not much: Nothing in the rooms is interactive, so all the wandering around has no point. The promotions are short and the excitement soon wears off, CLUE's only gameplay twist offers a notvery-interesting alternative to rolling dice. An automatic notetaking feature saves you the hassle of tracking which cards the other players have revealed, but the value of this is more than overnerighed by

the much greater hassle of having to ask your fellow players to look away from the screen while you look at your own cards and make notes on your "privage" noteroal

The sights and sounds of this CLUF are irresistible, and that may be enough to make you want to see and hear It. But it's not enough to make you want to play. it.-Charles Ardal

The Game of Life

\*\*\* Publisher Hashoo

bout all you need to really learner about the new version of THE GAME OF LIFE for the PC is that it features a "first-person car-cam" view, so that you can look ahead while you drive down the pastel-payed road of life. All of this is lovingly rendered-including the famous plastic spinning wheel-ina sort of Tinkertows-meets-Art Deco

style that exhibits a certain charm

Why then, is each arimation so slow when the hardware requirements are

so relatively high? After watching UFE gravel on my P200/ MMX, I despaired of ever making it to Millionaire Estates. and remembered fondly a session of the boardoame that I

played with my niece and nephew which finished in less than half the time Aside from that, the "enhanced" setting has little to offer other than offly side comes-match this nick that-which mostly serve to slow the

you're wanting to get something for that young gamer in your household. LIFE might suffice-but you have to wonder why a company capable of bringing MONOPOR and RISK! to the PC feels it has to go slumming when doing games for kids and family.—Terry Coleman

Outburst

\*\*\* Publisher Hashro Interactive n the real world.

> Outboost is the wellcrown party game in which one person calls out a category ("Dictators Whose Names Stort Web 1911\*1 and the others shout out as many answers as they can think of ("Benno Mussolinit" "Baby Doc Duve/lert")

before running out of time, breeth, interest, or Glenhvet. On your PC, OUTBURST is an excuse for Hashro to slice off a piece of the YOU DON'T KNOW JACK pie-complete with the gameshow-style visuals and soundtrack.

the tasteless parody commercials. Things start with the computer naming a category and giving you have 60 seconds to name 10 things that fit. This is deceptively hard. while the categories appear simple



("Harrison Ford Films," "Female Fairy Tale Characters"), you discover after quickly rattling off the first five or six arrayers just how hard it is to quess the last few. In subsequent rounds, twists on

the basic gameplay are thrown in. In "Reverse Burst" you get a list of answers and have to quess the category, ("Sylvia Plath," Poets? "Emest Hemingway," Writers? "Adolf Hitler." Suirplest) to "Challenge Clock" and "Sloopy Seconds" you have to beat your opponent's time or come up with the answers your opponent missed. And each game ends with a "MondoBurst" round which is just like the basic parte, except that you score points for more than ten answers.

What makes the gameplay

occasionally awkward is that you're not typing in entire arowers, just the first three letters. at which point the computer either guesses the rest or rejects your answer. But the atmosphere is light and brisk enough that you forgive the game a lot. It's impossible to take even the most annoying blunder on the Al's part too. seriously. What's harder to forgive is the lame comedy; half the time the host's "ickes" smell of desperate ad-libbing. OUTBURST may been the jokey offscreen host, and even the same vaquely parasitic relationship to YOU DON'T KNOW JACK that all those soberical and conical "cubes" hore to Rubik's original in the eighties, but at least OUTBURST



# From Bots to Slots

More Classics/Puzzle Reviews at a Glance

# Star Wars Droidworks ★ ★ ★ ★

Publisher, Lucas Arts Prices \$73.56 www.becastearing.com Felcome, young Jawa

efcorns, young Jawa apprentice, to the Doudworks, Here you will learn to analyze a mission's requirements and design a droid to carry it out, Will your droid need wheels? Treads? Legs? Should it be magnetic, or not? Will in require special

attachments, such as a welking hand a data nigra, a searchlight or mythe a votier to it can tak? STAR WARS DIFFORWORDS is one of those programs that this to combine teaching with fur, and it langely succeeds. Mostly, you keen about physics, though there's also plenty of problems selving, ill dissounds too cerebral, don't worsy: there are plenty of guess and levers and pulleys and counterweights to be explicated in handson fashios. And if you lik a langucertiment informations is readily.

MIDEX (Mitomanion and Data EXpert.)
Thenafully, decid design is easy and sim—choose a part, drag it most be construction window, and snap the parts together. When your obot it assembled, you can paint it and them worth it walk and even dance! After you ties of such sheemakans, you can take your

aveilable from the encyclopedic

droid for a test drive at the Sandcrawler fraining Facility. Eventually, it becomes time to use your droid to complete a mission, You start with simple leaning missions, which you'll run several

missions, which you'll run several times with increasingly difficult objectives. Complete the training missions successfully, and you're rewarded with additional choid parts, which you'll need to

complete the real missions later.
Missions play out in a 3D world (which, sadly, doesn't support 3D hardware.) Otherwise, a DRODWORKS mission is, in many ways, file a level of 3D1

a level of JEDI KNIGHT; there's just a whole lot less killing. Overall, DRODWORKS is a fun diversion for Star Wars fans of all ages.—Mark Charkson

Caesar's Palace Slots

'm not sure whose brilliant idea this was, but he deserves a Vegas-style but to the kneccaps. A casing game consisting entirely of simulated slot michines? Pokes, okay, blacklack

> stand; even roulette has some pretense to being a game of skill; but to pack a CD-ROM with nothing but slots approaches clinical insanity. Of the "More

> > then 100 sint

Lean under-

machines" promitted, you really have about 20 machines. Featuring mutiple price points. All the features you expect on a real machine are present, but who really cares? There is nothing to this game but "depost a coin" followed by "pull the handle." Sometimes you win. Sometimes you lose.



A couple of the machines are more interesting then average. 
"Lucky to servis" her a special payoff if you manage to with nothing seven public in a row. "Beach, Partys" has body parts arranged on eight vertical residence, and instead of trying to get matching symbols to line up, your goal is so form a body whose parts go together.

But eyes in these cases, the fun-

only lasts as long as it takes to

blow a few virtual quarters.

50 States?—Charles Ardai

What's next on the simulated

gambling horizon-Lette of the

Jeopardy!

☆ ☆ ☆ ★ ★

Publisher Interplay
Proce 119 95

he original PC MONANT was almost infectionably initially in the street venion is a sticker, the second point of the street venion is a sticker, on one competent venion that starts out like a bash right of 1 Visit Don't F. (2004) MACA, the first his to see you from eslecting the owinstall opion. Read His head he owinstall opion. Read His head Alar the below from his dispectability to the outerwise deal summandings Every things wenders to stiff-fieldly to the VIs shows frommat that you could almost believe you're on a sound.

stage somewhere (I'll leave it to you to decide if that's a good thing.) There are the well-known Delly Doubles in full-motion videothe usual mix of mainstream categories, and even a challenging tournament option that fans of the show will find warm and appealing. The computer competition is better than on the average PC game show but the real value of this game is the opportunity it offers to play a familiar family game with relatives and friends who can't quite handle JACK's saudness All in all, a nice, if safe, effort from Hashro,-Teny Colemen

TO THE WAY OF THE WAY



# Again, for Emphasis

### Some Classics/Puzzle Sequels Fare Better Than Others



### Sentinel Returns

\*\*\* Publisher, Payanasis

n a welcome change from typical puzzle fare, SENTINEL RETURNS offers a first-person perspective like nothing else since the original SENTINE, RETURNS levels are rugged 3D landscapes. Inside these levels hulks, appropri ately enough, the Sentinel; sort of an evil. Art Deco Egithouse, slowly scanning the landscape, looking for you. To win, you must make your way to the Sentinel's level and take its place. The catch is, you can't move; you play as a consciousness trapped in an immobile, Iron Malden-form robot. What you can do is create additional robot bodles, then telepart your consciousness into them. You can also create

on, raising them to higher levels. Creation, however, takes energy, which you absorb from trees and your old, castoff bodies and boulders. If the Sentinel spies you, he'll steal your energy. As the levels propress he gets beloers-Sentries and Meanlesto drain your energy and

trees to hide yourself from the

Sentinel's baleful stare and boul-

ders for your new robots to stand

transport you to less advantageous positions.

Despite 3D acceleration, the dark and eerie environs aren't terribly impressive. The boulders look like packing crates, and the trees favor the animated whislers in Gillette commerciais. But no marter; this game is refreshingly different, eminently playable, and each level leaves you hungry for ust one more. White early levels take only a few minutes each. there are 650 levels in all, so you'll be happily busy for quite a

# while. - Mark Clarkson Lode Runner 2

\*\*\* Publisher: GT Interestive Page \$20.00

www.qtqzmes.com ack in the days of the Atari 800 and the Commodore VIC-20, the idea of moving a little man around a screen. collecting buried gold pieces, and



avoiding bad ours felt both novel and satisfying. Today, when anything short of a real-time photorealistic, first-person bloodbath is greeted with a veryn, you have to wonder if a game fike LODE RIPANER 7 will find an audience

In this secuel, you're climbing all over the place in pursuit of mansized hunks of gold. Some of the hunks are out in the ones; others. can only be reached by blasting. away the layers of stone that cover them or by climbing hand-overhand along an overhead pipe Still others are at ground level but are guarded by hooded monks who will gladly best you to death if they get their hands on you.

Unlike the original's 2D layouts. LODE RUNNER 2 takes place in scrolling edifices viewed from an isometric 3D necessartive Unfortunately, the angle makes the controls awkward. It's easy to forget which key moves you in which direction. Plan to spend plenty of time banging into walls and dying after accidentally stepping in the wrong direction.

Despite the painfully unintuitive controls, the cleverness of the level design makes this a blast to play, if you can't figure out how to solve a particularly tough level, you can always move on to the next-a generous and wise decision on the design-

ors' nort. The fact that your character's movements are realistic, or that the levels take place in five graphically distinct worlds is nice. But it doesn't change the fact that the underlying game is basically just a series of supertough sequencing, timing, and topology puzzies. For many modern gamers, that'll sound about as appealing as a plate of brussels

sprouts, and I'm afraid that all

the snazzy 3D protrusions won't

get the taste out of their mouths.

But those camers who still value

cleverness and innequity over brute force will find LODE RUNNER 2 to be a worthy successor to its ancestor of 15 years ago-and one tough mother of a game besides, -- Charles Ardul

### Hoyle Board Games \*\*\*\*

Publisher Sierra

very once in a white, some product comes along to change your idea of what a classics/puzzle name can be. This collection of worn-out parlor games for the PC is not that product. Even the somnambulistic crowd that generally snaps these games up will find it hard to stifle



accurate, painstakingly boring ver-

sions of Chess, Dominges, or Pachisi included here. And I've had my fill of playing Reversi in bad adventure games, thank you. Of the 14 games available, Zen Rones might appeal to

someone who basn't discovered HONG KONG MAHJONG, and Placer Racer does sport a little of that old SREAKOUT more About the strongest recommendation is that everything here does work, unlike, say, Hasbro's PC YAHTZEE. That's to damn with faint praise, indeed-especially when the majority of these games have much better alternatives available as freeware or shareware. - Terry Coleman



# A game this funny requires a certain degree of preparation.



Prepare to laugh hard. Really hard. The latest YOU DON'T KNOW JACK' mixes high culture with pop culture in a fast-paced, trouser-drenching CD-ROM game, It's JACK like never before. So be prepared to lose it. But be warned: appropriate attire is recommended.

The irreverent quiz show party game.



# Caesar III

### Building Rome in a Weekend

### by Tim Carter

s with all mond strategy. games, CAESAR III most rewards the people who think about it in the right www. In your avenage game of military conquest, you might do guite well planning from objective to objective, in

CIVILIZATION, to give a second example, you could easily plan your success from one technologiral plateau to the next. However, city-oriented strategy games in pereral, and CAESAR II in particular, tend to reward players who think in reverse-from the finished product backward.

In CAESAR III. It's much more useful to take a few minutes (use that Pause keyl to think about how your ideal, finished city (with all victory conditions met) will look. Where will you place the highincome peinbhorhoods? Where will the high-density housing be most useful? How will these neighborhoods relate to their surroundings?

### Think Before You Upgrade

Probably the worst thing you can do is just start building. For instance, it's quite possible that to meet your financial needs and/or victory conditions you'll need ultrabrownis villas at least in small numbers. Wilas require more space than normal housing does and they need extra food and lixery items. Thus, when you're planning a rich neighborhood you have to visualize, at the outset, how you're going to deliver said goodies to the ludky residents.

See the Review MARY ISSUE + 4.5 STARS

Note also that villas aren't exactly efficient from a housing standpoint. In fact, moving up to a villa can create a housing shortage since less fortunate plebes have to move elsewhere. If the neighborhood you're trying to upgrade also serves as a major work-force suppiler to industry, you run the risk of "upgrading" your economy

where you might build fortifications at the start of the game, as well as where your trading warehouses (yes, plural) and docks should be located once you get around to setting up trade routes. Also, you'll want to make sure that your infrastructure (doctors. schools, granaries, markets, and

such) can handle the demands of

straight into the ground. Since your neighborhood won't likely reach the villa stage until well into the game, it's crucial that you plan ehead enough to both create the maximum value housing and accommodate it once it arrives.

Your city must also be balanced. with some lower-class neighborhoods to supply workers to your farms and industry. Note that lower dass doesn't mean inefficient or bad, just lacking in some highvalue commodities

Along the same lines, you'll want to get a rough sense for high density housing from the outset. In some cases this isn't a problems for instance, an engineer can just as easily maintain a big. auronsive house as a small tent.

In other cases, however, it pays to plan ahead. For instance, if you know that you'll need to import additional food types to feed an upper-class area, you must leave room for a warehouse near your primary granary in the area, Moreover it seems that buyers from markets don't adjust their shanning coutes unless their printnal source of food is destroyed.

Thus, if you redo your food supply system halfway through the game, your people may insist on following their old ways even if they starve as a result. Do it right the first time, even if this means a somewhat stretched-out city at the start. Keep in mind as well that. provided your city is attractive to immigrants, a new neighborhood can upgrade very quickly if all of the right pieces of the puzzle are in place. You may want to build middie class neighborhoods at the start of the game, then create customized high-rent housing to drive up your prosperity level later on.

### **Building the 'Hood**

One easy way to keep organized when building cities is to think in terms of neighborhoods. As most urben plenners will tell you these days, the optimum organizational unit for a major metropolis is the neighborhood-a desirable zone that provides most or all of the residents' needs, thus minimizing travel. While traffic lams are not much of a problem in CAESAR III. your people won't wolk far to get what they want, and you can't ever trust them to walk in the correct direction when they do set out. In fact, the somewhat random and limited nature of foot travel in CAESAR III influences many aspects of planning-but

Obviously, each major area of your city will need housing to have the necessary work force on hand. Housing, in turn, requires food, entertainment, religion, and a host of other services. Again, it's a good idea to decide in advance the kind of neighborhood you want to build If you simply need a decent working population, you can construct a middle-class neighborhood

we'll touch more on that later.



that will provide some tax income and enough people to be coneffective without enough poot to be coneffective without enough poot to be conplicated food and leouryions requirements of the effer.

Porman cizzens Working class
neighborhoods require most or all of the service bushings but few, if any commodities like portiers, familtree, whise, and oil, (Although a Ett be pottery and furniture can easily boost the density of a middle-desineighborhood if need be if you are short on some or simply need a

### garrison for a far-flung defensive cutpost, you may want to build a quick, cheep encomponent with only a prefect and an engineer. Fire and Roads

Because you cannot program where your propie walk in CAESAN II, you must belief your street system carefully. The key thing to keep in mind is that noaming representatives from each building provide services. These workers ent their buildings and walk along the street in a random direction. At each intersection they come to, the weeker will eatin make a random direction.

Thus, a city with many four-way intersections quickly becomes hideously inefficient, even dysfunctional, as too many service providers wander about almiestly. To avoid this your must construct your roads along minimalist lines, four objective should be to compact all the necessary points with

choice before proceeding.

the minimum number of intersections. In some instances, particularly early in the game, deadend streets can be highly useful. For example, if you're worried

you're worried about fire (a mage concern in the southern lateratives), our your prefectures at the end of seads, just past your residential or commercial neighborhoods. This will force your prefect.

to welk through key areas are least whice (an their way to and from their workplace), guaranteeing you coverage. The same principle applies to other coverage type services for the city, such as ongineers and tax collectors.

At other times you may want a single feeder road between a

single feeder road between a bustling residential neighborhood and, sizy a farming area. Also keep in sind that city walls and bowes must be connected by a maximay to your barracks for a garrison to be assigned. (Forts do not require mad connected from 1).

Otherwise, keep roads to a minimum. Under no circumstances should you connect your city to the wide-open Roman road (that which bisects the map) until you absolutely hove to. Early in the game, even if you build near the

Motiva riche la diversità di la constitució de l

main read, it's usually a good idea to separate your city and build absolutely the shortest roads possible so that people will not wander across half the map before returning to your small start-up area.

ing to your stried start-up area.

Different people prefer different specific configurations for their residential neighborhoods. I prefer an Homerotica, with housing forming the central column and see-

vices branched off in shorter roads at either end. Provided the shorter roads don't go anywhere, all of the service providers will be channeled into your housing neighbothoods, An I-

formation also offers many spaces near homes in which

to locate buildings that improve desirability (Ne baths) but also some areas that are not adjocent to housing for less desirable buildings like schools and markets. Finally, the I-formation gives

abundant soom in the middle of the neighborhood for residential growth. Remember that highervalue housing requires three, and eventually four squares per house, so you must feave soom for your neighborhood to grow. If you hove the cash, till in your extra spaces with gardens—they improve the desirability of the surrounding

land, and houses will build over gardens with no action from you when they need more room. Houses will not supplant satues or roadways however, so

don't trap your homes in. It goes without saying that markets must be located within close and direct proximity to a granary To make your food supply as efficient as possible, think through your transportation and strange system from the inside out. Before you build anything ask yourself from where the multiple varieties of food (for an expensive neighborhood) or more sustranance (for a working class district are going to

HUMBLE REGINITINGS

come. If you will have to trade for some (or all) items, make sure your granaries can access trading waterhouses, either by putting them neathy or by building a second warehouse to act as a feeder to your food storage areas. Careful micromanagement of

warehouses is sometimes key to legacing food currylles adequate. But refusing to accept some good and condition your cart out to look for others (along those carefully planned and restrictive roads), you can foster a functioning transportation network. It isn't easy, though, and you must keep in mind that your people will tend to wander. If your market buyers or warehouse cart men are not cetting what you need for are not doing so as efficiently as you'd like), you might consider removing intersections Of possible) to narrow their options

### Clash of Spears

in. While fighting is not central to es withing that avoided, Combat can even be fun when sought out through dangerwithin as assignments. ADVENT! ... IT'S THE DIFFERENCE BETWEEN THE SCRUBS AND ...





Pet more R-R-RUUL/BBLEIII in your rumbles—with an Advent Powered Partners sound system. The AV390PL. Three speakers and 70 waits of brustal power for grand-shaking body stams and mind-bending bedy stams and mind-bending bedgets, bettest sparing title and tag up with Powered Partners. The sound system that separates the study from the scrubs.





Powered Partners









#### CAESAR III

Winning bettles in CAESAR III generally requires a combination of fortifications and legions. Wide walls and towers will be garrisoned as long as you have a functioning barracks in your city and each tower is staffed and connected to the city by mad. Walls afford you a number of Important attributes First, they ensure that your legions can respond to attacks before the enemy actually pets into your city (provided you've been wise enough to build within the walls). Second, javelin-armed quardsmen and basilica on the walls can wear away at the attackers while your troops get organized behind them, or, if you prefer, you can meet the enemy head-on at the outside foot

Personalic I like to fight from behind the walls, especially against superior enemy forces. This ensures that your troops will be organized. ready, and in formation when they fight. Attackers will generally only breach a small portion of a thick defensive well, which lets you trap them in the breach and attack them with superior forces as they emerge (the land version of "cross-

of your walls and pain support

from missile fire from behind.

ing the T"). Meanwhite your hasilica and javelin garrisons can confinue to fire onto backed up enemy soldiers, help

In the open, you will still benefit from making the enemy come to you. If you engage before your troops have set themselves in formation you will suffer excessive losses and may even losedepending of course on whom you're fighting. The exception to this is cavalry which should be sent against bowmen or enemy flanks once their front is engaged and should disengage the minute they start to take heavy losses.

enemy army shows up before you've finished constructing your defenses-quick emergency action can often save the day While the invaders are fiddling about on your horder build a short wall with multiple towers near your most exposed residential neighborhood (to ensure workers), connect it using roads, and rally whatever troops you have in front of the wall. By the time your attackers get

If you're desperate-say, an

near your city you should have at least a few basilica ready to provide covering fire. Provided your defensive stand is somewhere veguely along their path of attack,

invading units will always converge on defenders first before running



ITAINING A CARTHAGINIAN ATTAC

ers are caught in a crossfire (above) as to breach the walls. Survivors can be discu



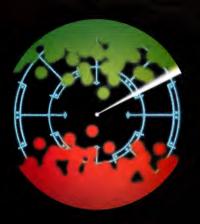
arnok in your city. This won't protect you from a borde of elephanes. but it will turn the tide of a closerun battle.

Under no circumstances should you ever fight the natives in a province, Build missions and make sure they don't fall down or become nonfunctional. And as the retive population provs and builds their own new houses, you must be quick to erect new missions if you want a permanent peace.

In closing, always remember that the people of your city, while not exactly stupid, will be complotely random in their actions. You, as their governor, must guide their actions through careful planning by giving them as few choices as possible. GTT

Tim Carter holds a master's degree in Strategic Studies, Clark out his review of 101 ARRORNE alsowhere in this issue.





## A L I E N S PREDATOR

LOCK AND LOAD THIS SPRING.





## **Total Air War**

## Exploiting the Enemy's Weak Spots Is the Key to Victory

by Tom "KC" Basham nfogrames/DID's TOTAL AIR WAR offers new challenges to experienced sim pilots, as

WAR offers new Chilenges to experienced simplices, as there are two ways to with the paren. You can take on individual resistence as a potor flying as F-22 Reptor flighton or you can onchestrate the entire air war as an ANMACS can only as an ANMACS can have a second to the part of the part of

I found the compact's strategic includes also to be of quotationable value. Other it sent state forces also to be formed in the strategic forces in the processor to speed consider also pine. Consequently, I found in necessory to speed consider materials may at the NAMCS control consider, endirecting strate forces to make a familiar materials with the processor of the processor

through a cloud of bandits and

run the entire combat theater, you'll have better results if you take control you

### Stay in the Game The first secre of advice for

TOTAL ARI WAR players is simple: Stey in the gerne.
Although the compaign engine will continue to fight the war in your absence. It's services to leave the battle raging while you attend to other matters.

DID's corlies

attemnts at a dynamic compaign didn't factor player performence into the equation, which drew criticism from gamers. In TOTAL APPANA It often seem that the computer declays friendly forces with less competence than it does with the enemy forces Success in TOTAL AIR WAS relies on continual and sustained success by the player. The computer will not win the wer for you, if you need to take a break, be sure to exit the campaign and halt the action,

See the Review

Sometimes you need to leave the AWACS mode, jump into

Sometimes you need to leave the AWACS mode, jump into an F-22, and complete the mission yourself.

SAMs (surface-toair missles) will airmost guarantee that they will be shot down. One mission isn't enough—you'll need these assets again later. Rather than taking on the enemy head-on, use the AWA'S made to refrient friendly units around enemy concentrations and hit them in their weak spots.

Finding the Holes
What are those week spots and how do you find them? Begin by

moving your E-3 AWACS and E-8 ISTARS as far forward (as dose to the enemy) as practical without leaving them esposed to enemy flighters. This will generate a clearer picture of where the enemy is deploying its air units. A concentration of

enemy fighters is most decidedly not a weak snot. Early in the wac look for Early Warning (EW) radars, especially those near the front lines that aren't heavily protected by enemy fighters. EW radars are the eyes and ears of the enemy, the ground-based equivalent to your E-3 AWACS. Taking them out degrades the enemy's ability to track your movements, opening the door for even deeper penetrations later. PW radges are usually pretty high on the computer-generated target list for the campaign; you may not be attacking them in the same order as the computer, but

you'll generally be working on "high-priority" targets. Although calling a SAM site a

weak spot is inappropriate, it's always good to harmer away at.



ough not necessarily in the same order.

SAMs guarding the enemy's borders. Removing these units from play will open safe corridors into the energy's interior It's unwise to send your strike forces through SAM coverage, Instead, redeploy deep-strike flights to engage frontline SAMs, thereby opening a doneway for subsequent strikes behind the lines. Some long-ranged SAMs. located along the border may have coverage pretty deep into your



COVER YOUR REAR Free n out the map to d ster and to check for any sneak attacks along your flanks



ATH RECOMES YOU Affed flights t

neutralize these SAMs as quickly as possible: the last thing you need is enemy SAMs in your backyard. Attacking

SAMs is dangerous enough, and some of your antacking aircraft will likely be shot down. Enerry fighters will only compli-

cate matters often decimation your strike frace. If you have to attack SAMs

### SAM I Am

AL AR WAR features a variety of surface-to-air sile systems. Since almost every country takes a turn as the bad guy in at least one campaign, you've

spaced to face a variety of threats SA-17 Grizzly: The Grizzly is one of the newest SAM sys ms. having been accepted into the Russian Army in 1995. An vel SAM, the SA-17 is designed to engage strategic and cal aircraft, tectical ballistic missiles, cruise missiles, tactial air-launched missiles, helicopters, and RPVs at altitudes g from 10m to 24,000m. Replacing the SA-11, the 5A-17 command post can track up to 60 objects and con trol six launcher sections. Its response time can be as

under a heavy fighter CAP (Combat Air Patrol), excirect your fighters into the area first. If you can be up the enemy patrols, your strike forces can slip in and out with minimal losses, Of

course, concentrating your fighters in one area leaves you open to counterattack along your flanks. Possibly the greatest challenge to an AWACS contentiles in TOTAL AIR WAS is not to overpursue the enemy.

#### Two if by Sea The Red Sea often makes a

enod "transit" corridor. The enemy often will skirt your flanks, send its planes out over the water, then slide around and encade your forces from behind. The lessons here are twofpld. First and foremost keep an eye on enemy fighters moving to the water. When you see fighters heading for the Red Sea, you can be

pretty sure they're not leading Israelites out of Egypt-they're planning to attack you. Keen sufficient fighters along the coastline to intercent and harass them Second. try this tactic yourself. Steer your forces out over the water then look to reenter at a "thin spot": somewhere where enemy SAM coverage is light

As an AWACS controller, you are responsible for the safety of every autoraft under weut control osnecially the "slow movers." Don't let the fighter alsoraft draw all of your attention. Keen tabs on the carpo-

little as two seconds and post vehicle monitors the verall tactical situation, design targets to the indi rs. The leanth vehicles us en additional four re es required to reload). The ssile uses semlactive rada

cal SA-17 regiment co of a command post vehicle, a target acquisition vehicle two missile illumination/guid co radar vehicles, and launcher vehicles. A regiment

0 00 00 OUGH The SA-17, one of

t surface-to-air ile sys in simultaneously attack 12 to 24 targets. The mis speed is 1200m per secand and, it's effective against

targets moving from 300m per nd (receding) to 1,200m er second (az 5A-11 Gadfly: Deploy the 1980s to replace the S atteries, a typical SA-11 ettery comprises a command post vehicle, a target acquisi tion radar whicle, and six

#### TOTAL AIR WAR



planes, helicopters, tankers, E-3s. and E-8s. Frequently zoom out the map and double-check the entire theater. If any bad gurs are sneaking into your territory make sure the slow movers are mound to safety.

Do It Yourself

As mentioned before, the computer won't win the wor for you. Likewise, computercontrolled aircraft often won't win individual battles either Perhaps the best thing about the AWACS mode is that you have the ability to jump into the seat of any F-22 flight. Symply double-click on the F-22 flight, take control of a

let win the battle, then bounce back to the AWACS and resume. control of the whole theater. Remember you're trying to take the war to the enemy. Buckle down and fight a defensive battle only

when absolutely necessary. At the same time, don't simply charge into harm's www. Use

the AWACS system to make adjustments that best use your airborne assets, CGCD

Tom Basham is the publisher of Debrief magazine favors. bearzone.com/debrieft.an excellent remeasion to CGW if you play sins and strategy parces Lately he's been piloting FUNCEFAN AIR WAY

Redirecting strikes against FW radars and SAM sites along the border has opened a wide corridor into enemy

of 10m-22,000m. The 70kg his splosive warhend offers a 17 redius. The missile's made speed of 250m per second SA-17. The SA-11 is eff against targuts moving at n per second (receding) to n per second (spore sching tale: The French-built otale system was developed 0s, and it shows its en compared to more rn systems. The system out operate on the move it it takes less than five min is to become operati ter stopping Missiles o ed 6.5 seconds after d rgot. The system is de at Mach 1.2 of elititu n 50m to 3,600m. It co ess 30 targets per en lution end track up to 12

ige, the missite can gen up to 27g's, but perfe ops to just 3g's at 13,0 y in the 156 eed veries from 500m per cond to 570m per second nding upon the varient gement range veries from

for 2.8 seconds. At 5,000m fl

n to 8,000m at altitudes of 10m-6.000m. The smell m

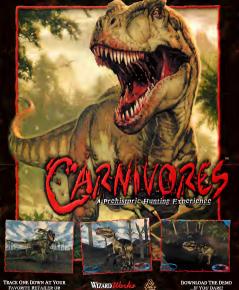


ced it with the SA-17.

etures e 6.5kg or 9.2kg highve warhead, depe upon the verient. The Roland's orse time for the first misle leunth is 6 seconds the secd missile follows between 2 end 6 seconds leter



Your ultimate dream and deepest nightmare in the flesh...



CALL 1-800-229-2714

## Motocross Madness

#### The Mysteries of Torque, Traction, and Gyroscopic Action

by Greg Fortune ike many of you, I had never ridden a motorcycle before-either on or off the road-before my first adventure on the muddy trails of Clearmeek, Yet there I was, stradding my tather in-law's YZ 465 and wordering if my limbs would arrive back in camp the same time I did. That fateful morning I was given a few sage pieces of advice. which I will now use to add some

#### perspective on playing MOTOCROSS MADNESS. When in Doubt, Punch Itt

When you think you're sure to wipe out, grab a handful of the throttle, stand on the pegs, and hang on! Dirt bikes will ride on/over/through just about anything as long as the rider is still aboard, and your wheels function as big. knobby gyroscopes. As long as you're on the bike with some momentum, you have a

chance—however sam. When you're airborne, control pitch via your back wheel. If you open the throttle in midals the gyro effect will cause your bike to tip backward. If you want to bring the front wheel down, give the brake a squeeze to slow down the back wheel-an easy way to control your landing approach. Similarly, when you're coming in too fast and have overshot your landing zone, you typically land headed in the wrong direction. going too fast. It's possible to tift your bike a bit and make the turn as you land in the middle of it. Be careful: Too much turn, and your bike will land sideways and toss you into the stands. Make sure to open the throttle just

See the Review

before you land to take full advantage of your spinning back wheel's desire to stay upright.

#### **Keep Your Helmet** Over the Bars In MOTOCROSS MADNESS, you

have the ability to control how far forward or back your rider places his weight, which is critical to staving on the bike. The rough rule is to keep your helmet on a vertical line with your bars. If you are riding up a hill, out your weight forward to keep the bike balanced on its wheels and



Before You Ride

rider's belimet is still over the bars prevent it from landing on your chest as it flips over backward. If riding downhill, stand on the pegs and push yourself back on the bike to keep the bike from coming over your back and riding you down the hill

CLOSE TO THE EDGE While this looks dangerous, note:

You can also use your weight to load the suspension before a jump. As you approach the jump. lean forward to compress the front forks. A moment before takeoff lean back and let your front end literally lean into the air It's the way to turn small jumps into trick concertunities. Finally, the quickest way to turn around is to

lean forward on the hike at leavspeed, tift hard in the direction you want to turn, and roost that back tire around behind you. You can burn doughouts all day long using this method Well. I hope that helps, Take

these tips, and a with lot of practice, soon the only thing your coponents will see is the mud you just roosted on their occupies (352)

Grea Fortune loves to pap wheeles in the CGW offices. especially when reliving favorite bio Mech fantasies.

## Morpheus Sorting Through the Dream Within the Dream

by Scorpia

n MORPHEUS the puzzles are sometimes trivial and sometimes really subtle. Clues can be anywhere, and sometimes you may not even realize you're looking at one or what it means. In the dream sequences however, everything you need to solve the puzzles will be in the dream itself.

Most solutions can be pieced together from visual clues. rather than by the use of objects, and in certain cases, a lot of deduction is necessary. Always look at everything in

your surroundings-be it on the ship or in a dream. Getting into the ship is easy: there's not much to work with besides the cargo controls (the

canister is optional and can be skipped if you prefer). Once inside, restore power via the AIV sequencer, downstairs from the theater level (speaking of stairs, examine the grand staircase carefully for a partly

enlightening experience). The front panel on the gordola shows your location.

You have to reach all three of the center circles to enable power on the Herculania, Don't be fooled; the third machine looks like the first one, but it's a different device. Otherwise, a little experimenting with the controls is all you need to be up and running.

Afterward, take the grand tour enjoy obestly replays, and work on getting into the staterooms and entering people's dreams. That can be done in any order: the dreams don't need to be completed in a specific sequence.

See the Review

## Swan

This lady is a dancer with a special tune. Cards on the lounge tables should help with the music and get you into her room, where we all know how to charm a cobra. For the tapestries, studying the background

should give you the edge. Amazing is the word for the bookabs starting is the right place.

will lead you to the answer in an orderly fashion.

#### Galte

weight, but

he code for Galte's stateroom door is a weighty matter, and the scale shows the weights for each class of

fighter. The dumbbells show that

missing. After you look at them for the first time, you see the ghost of Galte stepping on the scale. He's a welter-

when he picks up the two dumbbelk, be moves up to heavyweight (125) Since

the 10-pound weights are



### Malherbe

The kinetoscope details some of Malherbe's work and mentions two flowers and a "mustery" ingredient (flustrated in the film) that comprise his special serum. The diagram shows the layout of

the overshouse, and the names. on the chart correspond to flowers in the arrenhouse, plus the littie amphibian exhibit (the third ingredient). So, you find the two flowers on the green-



those names, plus the Earth (amphibian) exhibit tell you what to mix up in Malbebe's lab You'll also find Claire's code in his room.

#### Mexler

You'll have to see some of that dela boo with Mexier and Thurmon in a couple of places before rouddy events take place and you can get into his room. The callione puzzle is easy, it operates the carousel, making the solution a real horse race. Equally simple is the fun house. After seeing the presentation, no around back (trash the rat), and use a little null in the dark.

#### Thurmon

Her door took I er door code is another math job; these screens clues to the numbers you need to enter on the three both doors (Frigidarium. Tepidarium, and Vaporarium) so they'll



open. A steamy room will give you what you went, it you don't feel like you're going in circles here-you should be, very quickly. The graveyerd's another weind one; when you have the toy morkey, give it to a shaft (no kidding!). As for the three statues room, lighten up and reflect on where to go (be

sure to look around when you're up by the levers). This may require some trial and serce but it shouldn't take you very long.



#### Jan's Room he hint for this code comes from a couple of those

replays, including the one in Claire's room. Just keep in mind that the actual key is not a duplicate but a reversal. In here you'll obtain the code for Phanis' room and reach the end of the game. [37712]



## Creatures 2

Power-ups and Help on How to Keep Your Norns Alive

### by Mark Clarkson

REATURES 2 is a lot more difficult than the prining (and that's putting it mildly). If you're tired of watching as your Norns keel over one after the other, here's our handy quide to help you find those power-ups, along with some general tipy







SCHNCE KIT

ANCED SCHNCE KIT EUROSCIENCE KIT

IMMITTE SCHOOL

If your Norn is in a coma (stars are circling its head), grab this to save it. Even better than the basic kit because it lets you do genetic analysis. The way to pick your Norms' brains. This lots you select Grendels and Ettins as

well as Norse Once you have this, you can scroll anywhere within the land of Albia. Spend some time teaching your Norn to come when called. Do this very

early in the name. Your past quest is to retrieve the Science Kit (see #1). Get your Norn to follow the path shown to the Science Kit and tell it to "get implement." The Science Kit contains medicine to revive severely ill or injured Norrs; without it, you will lose a lot of Norrs. You can't physically pick up a Norn unless it falls in the water. You can grab a Norn to keep it from drowning. If a Norn won't go where you want it to, consider pushing it into the water on purpose with the push hand.

then picking it up and moving it where you want. Quickly, though! Imported Norus always appear in the incubator Room, So, one way you can move a Norn to the Incubator Room is by experting it, then reimporting it. If you have two Norms that you want to...ahem...get together, you can accomplish this feat by exporting and reimporting both of them in rapid succession.

Until you find the Infinite Scroll power-up (see #5), it's hard to view places where there are no Norns. You can use the Ecology Kit's location tab to iumo directly to anywhere in Albia where a Norn has been.

See the Review

Mark Clarkson has been playing computer games since the most realistic life-forms were Winky, Blinky, inky, and Sue. He is no doubt performing some demented genetic experimentation in his basement right now,



Tokyo



SEGADE

You have growed to se heigh of a tourn, Justing condex, such in statements and a subway a fallow fines stores down, you beough to everything. Exercise service elevator. Your the naids card get to the hole? rooms and goverthough one control of the service of the service of the service of single good to be set using to get a fase stor rainy, shift From Wot Sallo, the creator of Sin Tourntown, september 1997.

YOOT Tower YOU BUILD IT. YOU DEAL WITH IT.

# GAMER'S EDGE CHEAT CODES . HINTS . WALKTHROUGH

#### Sports/Racing Need for Speed III



. Don't choose your Tournament or Knockout car solely on its results at Home town. True to the NEED FOR SPEED series, tracks in NFSIII generally get trickler and more technical the further you go. In Class A. for instance, the Lamborshini Diablo may smoke the competition at the relatively sedate Hometown opener, but it sucks mightily when previocona the bobt confines of Rocky Pass or Symenic, My motte: If it rules at Rocky Pass, it rules everywhere.

. Start without wheelsnin. Tire noise at the green flag means you're not coming out as fast as you can. Generally, I apply about onequarter throttle before the timer hits zero, then instantly shift to first over at the green flag. ! keep the throttle there for a moment to ensure that the rubber grabs, then slowly move it forward, just quickly enough that I hear only the beginnings of tire squeel. It's amazing what a smart start can do for someone who's been flooring it all along.

. Keep off the scenery. Momentum is a real key in the NFSII world, and nothing latis your momentum like banking off a hunk of rock, a tree trunk, or a building (much less hitting it head-on). Instead, you should pear down or decelerate smoothly and early, miss the obstacles, and come out bot: A tempered. controlled drive with an oscillating throttle and ties steering adjustments almost always hears a medhouse full-throttle approach.

### **War Along the Mohawk**



portation gate from e fort map to the save first, because ere's no returning if ou can't complete the

at a flag near a white rock-the

Make sure to choose can be upgraded in four ways (damage, range, accuracy, and reload speed), while others have only a couple of possible improvement

. Know your obstructions, Biston abutments, cach, largo standards, tree trunks, Electronic Acts sons and barriers to alternate courses will stop you dead in your tracks. Speed or direction

sions, speebrush and small bushes. tree branches, and traffic berriers that don't lead to other ourses will not . Se a rodline racer, for manimum NFS terrue, it's best to keep your car at, or close to, redline. Of course, this doesn't mean staying stuck in second gear

when you should be in fourth: You should instead shift appropriately as you move uphill or downhill and through turns to keep close to section, rather than moving up to some casising geor that provides no push. Remember that aside from the amazing bonus Mercedes CIX-GTR, top gears

should be used only when streak ing downhill: otherwise, you'll lose speed s Berome a

master of the tight corner. No matter what the skill level. At constition simply can't handle the realty sharp doalers or heirpins as well as a skilled human can. Atlantica

and Country Woods are prime examples of tracks in which human drivers can gain a huge adventage by successfully navigating these tight corners. Enter from the outside, pull back momentarily on the stick as you crank heed to the inside, and come out wide and fast, --- Gordon Gobie



#### Strategy/Wargames

#### The Operational Art of War



ost operational-level warsames fail to sabsfactorily portray the significance of reserves. Typically, players throw all of their units along the front in a desperate otherset to create a breach in the enemy line. In ART OF WAR, reserves play a valuable role, since they can replace battleweary frontline units, gwing them a chance to rest. refit, and reorganize. Reserves can also be used to plug gaping holes created by an enemy attack or to

act as a follow-on force to bolster a fleasing offersive.

Here, elements of the British 11th Armored Division have become interminpled in the American sector, lying opposite the powerful German 17th SS Percer Division. These units should be reassigned to the British sector. where, together with other British

units, they can enjoy the benefits of formation support. While the British can attempt to disongage, it's likely that their engineering company will evaporate in the process

More prudent would be to order the 101st Airborne. out of reserve to occupy the British position. Compared to the enerry SS units, the 101st has much higher reconnaissance capability, which will serve to screen the British withdrawel. Other factors such as time of days preveiling weather conditions, and terrain are also taken into account. Note how the British units pay a heavy movement penalty to disensage -- Mark Dultz

#### Adventure/RPG Final Fantasy VII

Consult your map of the Great Glacies as you explore this item- and combat-rich erea.









Explore the Ancient Forest (east of Cosmo Carryon) to find some useful items.



To collect the coupons on the 63rd floor of the Shinra Building, open two doors to get to the room on the left. Climb up the air duct to get to the next room and open one final door to get the last coupon.



Bring plenty of gil to the battle game in Fort Condor. Deploy long range weapons near the front line and protect them with fighters. Petra Schlun

#### Simulation/Space Sim V

#### **Total Air War**



Note in TOTAL AIR WAR (TAW) may be disturbed to find themselves flying alone in later campaigns, where missions start with airfleids under attack, if you rush into the air your wingmen will never follow The solution lies in TAW's taxing procedures, which seem to confuse some gamers. The following "regulation" too procedure comes from the developer (it's not documented in the game's manual) Adhere exactly to this point-by-point guide and all planes in your flight will take off with you every time

1. As soon as you get into the mission, go to Emcon manual 5. If the tower asks you to go to Erroon S, check to make sure you are in E5 and copy.

2. Wolf for decreace to taxi to pursows. This may be beyond the tower's planned taloroff time, due to heavy air traffic-especially if the base is under attack-but you will eventually be given clearance. If you get fired of writing, Shift-T will speed up game time.

3. The tower will tell you, "Cleaned for text to running hold." Press Y to copy the tower's message.

4. Using the wingmen commands menu, tell your wingmen to "Push 1."

5. Follow the HUD direction carets to the runway. If you don't follow the route marked by the carets, your wingmen will remain parked. 6. Come to a complete half--apply the brake--on the taxiway just before the natival message

"Lead, on the hold" appears If you do not hold on the area of taxiway indicated by the carets, you will not get clearance to line up 7. Walt to be told to "Line up" by the tower

B. Taxi onto the runway Geop up a seesble speed and be aware that your weraman is belief you). and line up on the farthest right-hand marker (the single-line marker)

9. When both you and your wingmen are in place you will be given clearance to take off

--- Courtesy of DID's Matthew Pearson

### ADVERTISER INDEX Order Free Product Information @ www.computergaming.com/infolink

(III)	COMPANY	PRODUCT	PAGE	INFO:	COMPANY	PRODUCT	PAG
113	300 Co	Arrey Men 2	217		GT interactive	Deth Karz	19
3	300 Co.	Heroes of Might & Magic III	177-179		GT Interactive	PowerSlide	96
	300 Co.	Heroes of Might & Magic VII	32		GT Interactive	Trans Am Racing	C2-C4.1
64	300 Co.	High Heat Baseball	225	*	Hasbio Interactive	Hashro Recruitment	267
43	300 Co.	Requiem	66-67	115	Infogrames	Waroasm	65
46	3D0 Co.	Uprising 2	102-103		Interact Accessories, Inc	Advent Speakers	248-249
6	Access Software	Links Extreme	156-157		Interact Accessories, Inc.	Game Shork	106-107
9	Access Software	Links LS 1999 Edition	223	173	Interactive Magic	Shadaw Company	97.99.101
is	Acclaim.	South Park	134-135	163	Interplay	Baldur's Gate	80
4	Accolade	Redire	2-3	287	Interplay	Carmageddon 2	31
10	Action World	Game Dealer	125	166	Interplay	Fallout 2	13
45	Activision	Civilization: Call to Power	82-87	299	Interplay	Kinggin	6-7
46	Activision	Interstate 82	12-13	261	Interplay	Torners	37
	AICS	AKS	266	240	Loanech	Steering Wheel	153
	AIWA	O Sound	129	185	LucasArts	Star Wars: Rogue Squadron	84
16	ASC Garres	Jeff Gordon Racing	114-115	130	Mad Genius	Gun Metal	170-171
	All Technologies, Inc.	Rage Fury 8pand/Speed Kills	155	72	MicroProse	Falcon 4.0	237-239
61	Aureal Semiconductor	A3D	117	225	MicroProse	Mech Commander	90-9
00	Berkeley Systems	Jack: the Ride	245	223	Microsoft	CCIII: The Russian Front	62-63
66	Blizzard Entertainment	StarCraft: Brood War	4-5	191	Mindscape Entertainment Div.		21
10	Bungle Software	Myth It Soulblighter	40-41	191	Mindscape cinertoryrest by Multitude	Fire Team	194-195
10				245			
	8uyComp	BuyComp.com	25 70-71	245	Nanotairment	Ry Hunter	122-12
	Capcorn	Resident Evil 2		-	ORIGIN Systems, Inc	Populous	186-19
	Cavedog	Amen	118-119	SO	Paofic Digital Peripherals	Pacific Digital Peripherals	261
n	Cavedog	Total Annih flation	14-15	279	Psygnosis	DRAKAN	126-12
60	CD-RDM Access	CD-RDM Access	266	260	Quickshot Technology, Inc.	Gen X	124
8	Chips & Bits	www.cdmag.com/chips.html	264-265		Sega Entertainment	Yoot's Yawer	59,89,259
	Creative Labs	Multimedia	137-144	180	Sierra Studios	Caesar 3	174-17
\$4	Creetive Labs	SoundBlaster	150-151	269	Sierra Studios	Gabriel Knight 3	74-7
	Delt Computer Corp.	Dell Dimension Computer Syste		182	Sierra Studios	Half Life	22-2
69	DICE	DICE	266	53	Sierra Studios	Homeworld	202-20
	EA Studio	Pro Soarders	78-79	186	Sierra Studios	King's Quest: Mask of Etenti	
	EA/Maxis	5m City 3000	211	192	Sierra Studios	Return to Krondor	206-209
	EA/Maxis	Sim City 3000	213-215	60	Sony Electronics	ChronX	91
	Eidos Interactive	Commandos	56-57		SouthPeak Interactive	Pinky & The Brain	100
53	Bidos Interactive	Dalkatana	49	280	SouthPeak Interactive	Settlers III	166
52	Bidos Interactive	Eldos Interactive	228-229	157	Stongate Software	Stangate Softwere	263
50	Eidos Interactive	Eidos Interactive	230-231	167	ST8 Systems	Velocity 4400	28-25
	Bidos Interactive	Eldos Interactive	232-233	234	Strategic Simulations, Inc.	Luftwaffe Commander	46-47
51	Eidos Interactive	Eidos Interactive	234		Strategy First	Clans	260
58	Eidos Interactive	Gangsters	54-55		Symantec	NCI 2	181-18
73	Eidos Interactive	Thief: The Dark Project	50-51	242	Talonsoft	West Front	2
90	Eldos Interactive	Tomb Raider II	\$2-53	289	THQ	WCW Nitro	24
52	Bidos Interactive	Warzone 2100	18-19	275	Total Entertainment Network	PGL	3
2	empire Interactive	Apache Havoc	93	90	Union Reality	Virtual Reality	11
57	Falcan Northwest	Falcon Mach V	34-35	252	Westwood Sturkes	C&C Tiberian Sun	132-13
87	Fax Interactive	Allen vs. Predator	251	255	Westwood Studies	Lands of Lore III	16-1
25	Gathering of Developers	Fly	94-95	205	Westwood Studies	Recoil	198-19
24	Gathering of Developers	RailRoad Tycogn II	146-147	108	WarnfWorks	Carnivones	25
99	Great Planes	RX Pilot	267	291	Yamaha Corp. of America	Speakers	15
83	GT Interactive	Abe's Exodus	166-167	161	Yemeha Corp. of America	Wave Force Sound Card	14
**	GT Interactive	Reavis & Sutthead Do U	110-111		Gamespot	Gamestot	26









#### ADDRESS FOR SUCCESS http://www.aics.edu

Thousands of students

Welcome to the NEW AICS Virtual Campus . Earn B S and M S in Computer Science

Follows ACM/IEEE guidelines

EREE CATALOGUE: 1-800-767-AICS or www.alcs.edu

INTROQUEWG: B.S. program in Information Systems Distance Education Object oversed B.S. program Approved by more than 275

Hi-Tech lobs

www.dice.com

Try the largest online job service for high tech professionals! Point your browser to www.dice.com for FREE access to thousands of IT jobs. DICE has contract and full-time job listings for Programmers, Software Engineers and much more! Use DICE - it works!

QO TO \$169 © www.computerporang.com/sylcens.

## oo many Controllers? Not enough ports?



The Lightning 4 features VStick: The Ultimate Virtual Joystick, which means you never need to plug or unplug your game controller devices. They're all active with up to 32 Individual buttons available. With VStick you can assign any button a Keystroke Macro - with key sequences up to 32 characters per button, with no keyboard cabling required. Check out the L4 at these great sites:

Z-Tech Computers www.z-techcomputers.com Utah RC Simulations www.rcs/mulations.com Simware Simulations www.simw.com

Flight Sim Central www.fscentral.com

wabhome.idirect.com/~drbryan/qpl Canada

Pacific Digital Peripherals, Inc. 2025 lyvander Breave Simi Yolley, OR 95065 (605) 561-7025 e-mail: pdpi@mss.com www.pdpi.net SO TO **1950** If vive corrected with a com/original



- planes respond just like real R/C models.
- Awesome 3D backgrounds with photo-realistic flying sites.
- Stereo soundtrack includes engine noise, crash effects & music.

GO TO #100 if more corrected extraction com/invalida



ADULT

KIDS

## BEFERENCE

VourOnlineSource(orGDROMSoftware)

Herriffles (very Week)

Shop and Order Online a www.stargatesoftware.com For Dealer Information and Wholesale Pricing Call: (215) 674 - 9877

QO TO #157 @ www.correuterparang.com/infoliolo

# Game For Anything?

Hasbro Interactive is fast becoming a leader in the game industry. Our commitment to great games has led us to form a unique team that focuses on game design, character/story development and graphical/interface design on all of our games. The great news is that this fast, dedicated, driven Design Team needs a few more members. So, if YOU locoove to play and design



Cando crivin Joseph (elim nedos a les mores agrecia) partire de la composition del composition della c

Game Designer.

We next increase me ruphy knows pures, his more important, multi-knows how to a design them. Adults to communicate your steers in some instructive through design does, described, educated, and the required Gample design ander personaming likelin pells. For quality, you must have a BBRA or equivaded and 24 years expectates designing garness that how been published. The ability to work on expectation and 24 years expectate designing garness that how been published. The ability to work on expectation and 24 years expected to the communication of the communi



Unitary port carefuling conceptual eggs shifts to help direct our electronic games gapacial situation, its. This will include designing environments, characters, and vehicles for a wide variety of gennes, because the situation of the situation



Hastiro Interactive, offers competitive salaries and a comprehensive benefits package. Please send reasumes to Human Resources, Hastiro Interactive, 50 Dunham, Road, Beverty, MA 01915. No phone inquiries, please. An affirmative action, quad opportunity employer, MFDDV. The package looked hot.

The descriptions were glowing.

The screen shots sizzled.

And my fifty went up in spoke.



Choosing a game by the packaging is always tady. They all look good. That's why you need to go to Gametport. There you can download the latest demos so you can by before you buy, rend in-depth reviews by top editors and gamers, get hints and tips to play better and much more. And, it's all free. So before you buy another game, go to Gamespott. because you've got better things to burn than your money.





## HALL OF FAME

## WELCOME TO THE COOPERSTOWN OF COMPUTER GAMES. Games that broke the records, established the benchmarks, and held gamers in delighted trances for hours untold.

Alone in the Dark (1-Motos, 1593) Lovershim honor goes 3D, with shifting camera angles adding to the cracpy atmosphere.

The Band's Tale (EA, 1985)
Proneered three-point animation, 3D color mass, and auto-mapping.

Battle Chess (bumples, 1986)
The Frankin Mist of computer chess games, with violent and furry animation dispension as plut chess regime.

Betraval at Krondor (busanis, 1983)

As rich and imaginative as flaymond Feist's world itself.

Chessmaster (Software Toolwarks, 1988)
The Cadillac of cadding, it gets batter with each version.

Command & Conquer (Visjin/Westwood Studies, 1995) Mewed beyond David if with renovative features and multiplayer play, usbeiting in the current real-time strategy game explicates.

Day of the Tentacle (Lucasivis, 1993) Offices sequel to Monac Musics, the interactive equivalent of a classic Charle kones carbon. DOOM (rd Saltware, 1993)

People (in Satwers, 1993)
People of the Companies and network garrings now surpassed in technology, but not in garringley.

Dungeon Master (FIL Software, 1967)

Trend-setting gaphics, digitated steeps, and great hackand-slieth from a decade ago.

Bart Weaver Baseball IIA, 1985)
Fernduncury physic-besid beschill game pleased both action and statistics I am 3 III many passed more

than a decade later.

Empire (Intente), 1970)

World War II in space, this main/name transplant.

were war in in space, our halfstrane transplant, thought displet mechanics, digith, and unending implayability to the PC.

F-19 Stealth Fighter (Microhose, 1988)
A "thinking man's" stri, with great inissions, in which

sneriong around is as fun as degrighting.

Felicon 3.0 (Specium Hololope, 1991)

Toogh, datafed jet sim with ambicous Al,
graphics, and connectivity to match its realism.

Front Page Sports Football Pro (Dynamic, 1903) Physics-based system, good AI, and unmatched career play make this the ultimate in pigston play. Gettysburg: The Turning Point (SS, 1986)

Gettysburg: The Turning Point (SS, 1986) First variable enter of battle changed the look of all Americas Crail War games on the PC. Gunship (Microfrane, 1986)

Great character continuiny, 888 for fairgued place, and even sick leave; best chapper fare until Jane's Londson. Harpoon (360 Pacific, 1985) In-death modern noval battler in maltime, based on the

In-depth modern naval battles in maltime, based onworld's Cold Wor fees.

Kampofernance (SSI 1995)

Kampfgruppe (55), 1985) Its Weld War II East Front armor battles were a success on multiple platforms. King's Quest V (Siera Dr-Line, 1990) Residened the graphic adventure with new parser and VGA graphics. Lemmings (Psycross, 1991)

The loveble cartoon tilliputions were hits on every platform.

Links 386 Pro (Access Software, 1992)

Topped the leader board in graphics and realism for its era.

M.-1. Yarah Phateon Microbines 1989)

M-1 Tank Platoon (Microhose, 1969) Basistic sin that propely focused on amored formations rather than on single vehicles; good intesion designs.

Master of Magic (MicroProse, 1994) The atmosphere of Masic: The Graveses with the sophistication of Civ.

Master of Orion (Microfrice, 1993) Remarkable diplomatic Al, deep and varied technology tree; alters required radically different playing styles.

Mech Brigade (SSI, 1985) Improved Kowncrums system for modern armored bestles.

MechWarrior 2 (Activision, 1995)
A serious treatment of Mech design and resource
management, combined with compare and addictive
battless, beltimused "start robot servolutions."

Might 6: Magic (Hess World Computing, 1980) First-person, mare-based RPG with hape environment end dough combat.

M.U.L.E. (IA, 1983)
A landwark multiplager strategy game that had no neepons of destruction, yet custiness consections that

made contracts fan

Panzer General (SS, 1994)

Entenaneng wagame with an elegant interface,
gret campaign, streen AL pood graph is, and

impressive scient.

Red Baron (Dynamix, 1990)
World Wart I air combat with great graphics, incredible

realism, and a versatile replay feature.

The Secret of Monkey Islamd (lucus/sts, 1990)
Comedy that set new standards as writing quality and social terreflicity.

Sid Meier's Civilization (Mos/hose, 1991) CGM's f1-sated game of all time, indescribably addrowe walf-compact/exploration game. Sid Meier's Pirates (Mos/hose, 1967)

and mercer's Printles Informor, 1967).

Combines prate adverture, action, RPG, and strategy to make the meet successful hybrid of all time.

Sid Meler's Railroad Tycoon (Mouthout, 1960).

Sadim meets 1830, with subser bases for emphasis.

SimCity (Moxs, 1987) Whan planning with fascinating consequences and challenges, the first great software top.

Starflight (FA, 1986) Opph, great characters, and a good so fi storyline set early BPS standard Their Finest Hour (LocasArts, 1985) World War I sim with great campaigns, realism, and many crew-momber options.

TIE Fighter (Localiris, 1994)
Most satisfying Star Mais space-combat game to date,
lets you live on the dark side.

Ultima III (Orgin Systems, 1983)
Coherency and sarphying subdiety emphasized roleploying and set the tone for later Ustavis.

Ultima IV (Origin Systems, 1985)

High concept RPG explored meaning of virtue and put the role in role playing Ultima VI (Origin Systems, 1950) RPG as mortality play, replots with moral choices and

Ultima Underworld (Drgn Systems, 1992)

The first truly 3D BPG, and stiff the most connecting its clargeon walls are nealy "painted" with tenturemapped graphics

War in Russia KSI, 19841

More reliable than Extraor Rose, it captured the essence of the largest land campaign in history.

WarCraft II (Biozani, 1996)

More cerebral than most real-time strategy games, it offered deceptive depth and personality to spore.

Wasteland (Interplay, 1986)
Denied from Mice Stackspole's Mercenaries, Sines, and

Private Eyes, this is the definitive postspool/plot BPG.

Wing Commander (Dright Systems, 1993)

A lost space flight engine, unfolding story path, and great characters.

Wing Commander II (Orgin Systems, 1991) Darker stery, gother feel, seemd card advances, and bougher All made this a sequel of sequels. Wing Commander III (Origin Systems, 1994) Supprinted substitute (III) (Origin Systems, 1994)

essence of the space-combat game.

Wizardry (Sr-Tech Software, 1981)

Defined the computer FPG with maze-based veryoont

and atmospheric spell names.

Wolfenstein 3-D (d Software, 1992)
Smooth-profiles action blastfest devely unclased the

original and put shareware back on the map.

X-COM (Maso/hose, 1994)
Fighter factical squad-level engine combined with alien tech research and pap outlane for a so-fi game monty is additive as Committee.

You Don't Know Jack (Berkeley Systems, 1996) Fasth and invested, Lock acred trivial garring on its collective en to become the first mainstream CD-4DM with a glocful gamophy late. Zork (Infocon, 1981)

Zork (Infocon, 1981)
The progenitor of adventure games on the PC; its humor and challenging puzzles seem timeless. The game has since spawed a number of sequels, note of which has

#### CGW'S MONTHLY READERS' POLL

and month, 2,000 CGM subscribers are selected at nandom to rate 100 computer games. The results of that poil are combined with the results of previous months to yel-dia cumulative average for the best plays in gaering. If you receive a barlot, please rebun it with your railings to that other games and againe publishers can benefit from your feedback.

( )			TOP ACTION GAMES		
VIII.	3200		EXILECTOR OFF	#CCSS	
111	1	-1	Quake II Accessor	E41	4.5
12.0	2 2	2	Jedi Kright: Dark Forces III Licrotro	4.06	4.5
_	3	2	Quake Pack 2: Dissolution of Solven efficage	8,65	5
	- 4	4	Quake Pack 1: Scourge of Subsectional	8.64	4.5
	5	5	Urreal GI invoice	8.16	4
	- 6	5	Jedi Keight, Mysteries of the Sith Lucasia.	5.33	4
	7	-	Rainbow 6 Red Your Entertrement	810	
	8	7	Quake # MP: The Recknoing at toloward/attribute	7.99	1.5
	9	8	Yemb Raider Into	7.62	4
	10	2	Moto Recer (A	274	4

157	3		TOP ADVENTURE GA		_
	QUE:	- 10	EXHITEMENT	SCCHE	
100	(B) 1	- 1	Curse of Markey Island Isosass	8.24	5
1466	EL 2	2	Sanitarium ASC Games	7.62	4.5
	3	.4	Twinsen's Odyssey Actimum	7,69	5
	.4	3	Blade Runner Wesswood/Vege	7.66	4.5
	S	5	Zeek: Greed Inquisitor Advens	7.53	169
	- 6	- 6	Realms of the Haunting Integrity	7.43	
	7	- 6	Last Express Red Orb	7.40	
	. 8	9	Circle of Blood Visps	7.17	
	9	8	Rama Sou	7.10	4.5
	10	10	Tex Murphy: Diverseer Acres Salanore	7.27	

JACK	_	TC	OP CLASSIC/PUZZLE GA	MES	
C-12	25		CHIPCOMPAN	SCOM P	0703
THE PERSON NAMED IN	1	- 1	You Don't Know Jack 2 Ledning System.	8,23	45
10000	2	- 2	Now Don't Know tack 3 Andrew Systems.	7.64	4
	3	4	You Don't Know Jack Movies Indide fortens	748	4.5
	4	3	Smart Garses Challenge 2 Smort Games Inc.	7.85	5
	5	5	Warms 2 Mochase	7.78	4
	6	- 4	You Don't Know Asck TV Soletry Systems	769	. 25.
	7	7	You Don't Know Jack Sports Enterly Leasons	7.45	45

100	1	O	P SIMULATION/SPACE CO	MBA	T
A Trible	赤	8	G.MEKGMINAY	10011	
Secretary Commercial C	1	-1	Longbow 2 (A	5.47	
1000mile	2	2	Wing Commander: Prophecy Orgo	8.34	4.5
	3	)	F-15 (A/Orgo	£ 18	4.3
	4	4	F22 ADF (N)	3.37	4.5
	5	5	Fighters Authology CA	7.67	À
_	6	7	Flight Univerted 2 Looking Gloss	7.60	· A
		- 6	MechWorrior 2: Mercenaries Acrosice	7.60	
			Descent: Freespace-The Great War Implay		
_	9		Flight Sknulater 98 thouset	7.30	1
	10	8	M1 Task Platoon & Mosheur	2.26	

1	Т		TOP SPORTS GAME	5	
	100	30	CAMETORPATY	30001	
- 50	1	-1	MHL 96 IA Spots	8.66	-
E+1	2		World Cup 98 IA Sports	8.45	
Question.	3	3	MSA Live 98 CA Sports	E32	4.5
	-4	- 2	FIFA Road to the World Cup 98 6A Sports	631	4.5
	5	4	NASCAR Rading 2 terra	6.12	- 5
	- 6	5	Anck Nicklaus 5 Acceleds	3.99	- 5
	7	- 6	NBA Ligre 97 EASports	2.76	4.5
66	8	7	Diamond Mind Baseball 7.0 Dunord Mind	2.63	3.5
	9	10	Tripleglay 99 EA Sports	2.57	2.5
	19	9	Asck Nicklaus 4 Accoluir	7.46	5

1 50			TOP STRATEGY GAME:		
1.00	199	45	ENWICONTHAL	accor	17893
and the last		. 1	Hernes It Price of Loyalty 300 New World Comput		
Minutes No.	2 II		StorCraft thosed	4.50	
-	.3.	2	Total Armibiliation: Core Contingency Conduc	1.76	4.5
	-4	4	Heroes III 395/New World Computing	8.56	
	5	- 5	Red Alert YoghrWhstwood	1.16	45
	- 6	- 6	Total Accibilation GE Interesting	5.76	4.5
	. 7	7	Red Alert: Counterstrike Vegetteswood	8.16	
100	8	9	Age of Empires Morrot	2.99	45
	9		Ovinzation R. Scenarios Mechani	7.00	
	10	10	Civilization II; Fentastic Worlds MonFrance	7.06	- 4

	Т	T	OP ROLE-PLAYING GA	MES	_
E. A. A.	196		CHARTCAN OF		OTAL
E. N	1 1	1	Might and Magic VI 300/New World Computing	0.53	4
Section 1	# 2	2	Diable thund	6.53	U
3)5,01	3	4	Fallout intoping	6.32	43
	4	3	Final Fentacy VII Fdos	6.31	
	5	5	Helffire Sons	2,67	
100	- 6	6	Shadows Over Biva Sin lech	5.60	
	7	7	Lands of Lore II Weavood	6.16	167
100	- 6		Meridan 59 300	5.01	3.5
	9	9	Ultima Caline (1/0)	482	1.5
_	10	10	Rattlespire Referals	4.53	

A Company	TOP WARGAMES										
THE REAL PROPERTY.	1953		SAMECSMANN	SCC 15							
(Ellinger)	1		Steel Parthers II Campaign Disk 551	0.33	45						
4	2	2	Operational Art of War Intensels	4.31	45						
Section 1	3		Pagger General II SSI	6.27							
	4	5	Sid Meier's Gettysburg Frank	8,01	45						
	5	6	Steel Parthers II SS	2.98							
	6	7	Battleground: Napoleon in Russia Disciol	2.62							
	7	8	Battleground: Artifetam Diorock	2.76							
100	-	9	Sattleground: Bull Bun Televioli	7.76	4						
	9	4	Great Battles of Julius Caesar I Minic	7.66	4						
	10		Steel Pantheis III 19	7.75							

Garnes on unrumbered lines are tied with garne on line above. ★ = Top game of genre. Red = New Garne, AD = Advertors, RP = Role-Playing, SI = Smuladion-Space Combat, ST = Strategy, WG = Vibrigarine, AC = Action, SP = Sports, CP = Classic Plazibe Garnes are retired after two years and become eligible for the Hall of Farne.

W	協	forthers	2005	200	ENTERS	Degr.	総	r seed	Service .	200	Mil
ī	1	Heroes in Price of Loyalty (DONey World Computing	ST	166	5	_	46	MBA Live 97 EA Sposs	9	1.76	45
2	2	Might and Magic W 300/New World Computing	99	183	45	52	47	Mate Recer (A	AC	134	-
3	4	StarCraft Elizard	SI	1.80	5	53	51	Torob Raider II Edos	AC	771	4
ě	3	Total Applibiliation: Core Contingency Caretry	21	176	45			Commandos trás	AC.	7.71	
5	5	MHL 98 EA Sports	52	1.66	4	55	55	Tuinsen's Ddyssey Acardin	AD	7.69	9
6	6	Heroes II 300/New/World Computing	ST	8.56	5		\$8	You Dan't Know Jack TV Beldey Systems	CP	7.69	2.9
	7	Diable Skuard	RF	8.53	45	57	23	Fighters Anthology EA	9	767	31
5	8	Quake II Accessor	AC.	8.48	45	58	54	Blade Russer Wistwood/Virgin	AO.	7.66	4
9	10	Longhaw 2 (A	SI	8.47	5		25	Great Eattles of Julius Caesar   Mage	W5	766	
K	10	Jedi Knight: Dork Forces III 13085/15	K	8 46	45	60	63	Diagnord Mind Baseball 7.0 Danced Med	SP	763	3
	9	Red Alert Vrgn/Whitesod	52	8 46	45	61	57	Battlezone Achieros	AC	7.61	
12	10	Qualte Pack 2: Dissolution of Solvantilogot	K	845	5	62	64	Flight Unlimited 2 Looking Glass	SI	760	4
	-	World Cup 98 EA Sports	9	8 45	45		59	Medifformer 2: Mercenaries Activison	şį	7.60	4
M	13	Quake Peck 1: Scourge id Solvens Revil	K,	8 44	45	64	70	Tripleplay 99 EA Spots	59	7 57	2
	17	Several GT introctor	K	3 33	4		62	Zoric Grand Inquisitor Activition	AD	7.57	140
N	16	Wing Commander: Prophecy Drips	9	8.34	45	66	66	Dungeon Keeper Expension (Albulling	ST	7.55	- 4
	17	Jedi Keight: Mysteries of the Seth Lucroints	N,	833	4	67	61	Descent, Freespace—The Great War Interplay	şı	7.51	
		Steel Porthers II Comparign Disk SS	WG	8 33	45		59	MechCommander Idouftee	ST	7.51	
i		follow imply	10	8.32	45	69	64	Myth B.ngir	SF	7.49	- 4
	17	NEA Live 98 (A Scoti	59	8 32	45	70	46	You Don't Know Jack Sports Suitely System	CP	7.48	- 4
2		FIFA Road to the World Cup 98 (A Sports	9	831	45	71	69	Jeck Mickleus & Applicate	SP	7.46	
		Finel Fentasy VII fides	19	8.31	4	72	67	Triple Play 96 (A Sports	SP	7.44	
		Operational Art of War Liberion	196	8.31	45	73	72	Realins of the Hounting Intoping	AD	7.43	- 4
		Panzer General II SSI	MG	127	5	74	71	Interstate '76 Activision	AL,	241	4
		Total Annihilation 61 Interctve	SI	18	45	75	72	Last Express Ped Orb	AÞ	7.40	4
		Curse of Monkey Island tuzzalris	AD.	124	5	76	76	Dungeen Keeper (A/Britto)	51	7.36	4
		You Don't Know Jack 2 John's Jysum	CP	1.19	45			Werlands III: Darklands Let Do	51	7.36	
		F-15 IAOnso	9	13	45	76	78	Circle of Blood Visio	AD	137	
		Red Alert: Counterstrike Vign/Wtstwood	- 11	116	A	79	75	F1 Recing Simulation Ubdelt	92	736	
		NASCAR Bating 2 Sets	9	8.12	5			Power Chess Sens	CP	7.35	N
	-	Bainbow 6 Fed Sons Learnesses	K	8.10	15	81		Virtual Post 2 http://	9	732	- 6
		Sid Meler's Gettysburg fract	195	801	45	82		Flight Sirrafator 98 Hosset	9.	7.30	3.
		Age of Empires Monals	ST	7.99	45	-		Rama Sett	AD	7 10	4
		Jack Micklaus 5 Acolete	59	199	- 5	84		M1 Tank Plateon il Monfress	9	7.28	1
		Quoke II MP: The Reckening of Schware Octobion	NC.	110	15			Shanghai Dynasty Activison	CF	1.17	
		Stool Pasthers II SS	WG	7 %	45			Tes Murphy: Dverseer Access Software	AD	1.27	
		You Don't Know Jack 3 Bolidey Scores	CP	791	4	87		Soci Feathers III Si	186	7.36	
		Guitzetion II; Scenence Mourtee	ST	7.88	-			Achtungi Spitfire Assistati	SI	7.25	
		You Don't Know Jack Movies Inhely Systems	CP.	7.60	45			Age of Rifles Compolign Disk 55	100	114	
		Hellfire Sons	10	7.87	45	03		PGA Tour Pro IA Sports	9	124	1
		Nettire 2012 Tomb Reider fide	H.	787	4	0.0		Sasebali Megul Iring Vorky	9	1.22	
		Civilization III: Fantastic Worlds Hoofsee	AL.	181	4			X-COM, Apochipse Montree	ži.	7.19	
		Smart Gernes Chellenge 2 Smart Gernes Inc	(P	7.85	- 5			Close Combet: A Bridge Teo Far Moreoft	NG.	7.15	-
40			ST	7.85	35			Leisure Suit Larry 7 Sens	/D	3.17	
		StarCraft: Insurrection thered	31 99G	7.85	45	24		Lords of the Bealm II Serv	21	117	
•		Battleground: Napoleon in Russia Febrúck Sanitarium ASC Georg	AD.	182	45	96		MOK Pleasets/Shire	H.	7.15	-
			(P	1.76	45	20		X-Wine vs. TIE Fighter (ICSA)	9.	7.15	3
		Worrs 2 Montree	9	176	45	90		FIFA Boad to the World Cup 97 64 Soots	9	7.12	N
		F22 ADF DD	9 196					HPA Moad to the World Cup 97 to spots	10	1.12	
41		Battleground: Antictaus Talordolt		376	5	33			H)	7.09	- 50
	8	Bettleground: Buil Run Triocost	WG	176	- 4		96	Upfeling 300	AC	1,09	_

## And Now a Word From Grandpa

Or, if I'm Not Old, Why Do I Want Those Dang Kids off My Lawn?

he sions are everywhere There is no escaping it. am ortting old. One clue is that I day-my 37th. I sup-

just had another birthpose this beats the alternative-being dead-but this one was clearly the birthday of a soon-to-be-middle-aged guy. For one thing, there were no coal toys whatsoever. No Hot Wheels, no Batman accessories. no ranivi-fire water cannons. What I did get, in fact, was some new underwear. Even worse way worse was that I was happy about it. Next year I suppose I'll be thanking people for my personalized droot bucket and inaugural box of Depends.

Turning 37, for whatever reason, has really made me think about stuff, more than the last few birthdays have. For example. 15 years after the fact, it has finally hit me that I am no longer just "postcollege" and should therefore stop daysentity is my exponentially dreaming about living in a dorm again and throwing

I've also noticed that it's netting harder and harder to stay hip. I don't know what "gettin' jiggy with it" means, nor do I honestly care. Go get jiggy somewhere else-and keen it down while you're at it. I don't want any part of my body pierced, at all, unless it's somehow going to help my digestion, And Marilyn Manson? What's up with that guy? (It's a

pennies at people from out

the window.

guy, right?) I have no clue what his music sounds ffee, but whenever I see his picture I want to tell him to eat some meat, for Pete's sake, and to get some natural sunfight. ...

But the clearest, and most depressing, sign of my rapidly approaching slide into carerattling, tapioca-pudding-eating



than actually playing. My aim is so shaky, you could attach a fork to my mouse and scramble an egg white I played. When I'm not dead, you can usually find me standing still, in wide open spaces, panicked. weaponless, waiting to die.

The picture isn't much prettier in real-time strategy games. In the ongoing CGW AGE OF EMPIRES battles, while my opponents are frantically collecting resources, building armies, and preparing to destroy me. I am usually squinting at my screen, wandering around with one peasant, looking for my first berry bush. Often I have to be reminded what game we're playing, or be led back to my desk if I've wandered off,

Quicken, working on my stock portfolio? Instead of stressing out about how to stop those frickin' buildings from catching on fire all the time in CASSAR III, shouldn't I be attending weekend business seminars and reading books on cholesterol? But, you know. I just can't get into it. I don't want to be like that. And why should I? Life's too short to act "old." And, anyway, if perennial youngster John Glenn can orbit the Earth at age 77. I can play a Ottace III

maybe the then brand-new DAKATANA) at age 77 myself. So, go ahead and laugh at the old man. I may not be able to frag a moving target anymore, but I'm still having fun.

And the day I'm too old to have

fun-well, that's the day you

DeathMatch at age 37. I just

hope I'll be playing OUAKE X for

### I just hope I'll be playing QUAKE X (or maybe the then brand-new DAIKATANA) at age 77.

declining garning skills, Especially when it comes to action games like QUAKE II.

Back in my day (before electricity before the whoel before your fancy modern conveniences like "housing"), I could hold my own in a first-person shooter. My reflexes were good and my mind was sharp, so I could routinely kick booty in games like Doom and

MARATHON, Gamers feared me. These days, well, it's just kind of sad. I die constantly I spend more time respayming

Computer Growing WindriffSSN 0784 6667) is published exembly by 2D inc. One first Avenue, New York, NY 10015. Salacopson rule is \$27.57 for a one year subcompan (12 couns). Canada and all other counters add \$16 00 for surface mail. Protection: Send address changes to Computer Gromay Modiff PO Box \$27127, Souther CO \$0328-7167. Complain GS1 regulation transfer is \$25371, \$442 ft. Computer

the good old days of PAC MAN and Pows. ...

Okay, okay-it's not this bad vet. (Managing Editor's note: Yes it is. / But this is my big fear-that I will keep playing games well past the point where I have any business doing so.

I keep wondering, actually, when it's going to hit me that it's time for me to stop goofing off and buckle down and be an adult, instead of killing giant ants in EALLOUT 2, for example, shouldn't I be huddled over

can stick me on the cart and hauf me away. Until then, grandpa's gettin' liggy over here with GRM FANDANGO, Be a good boy and go get me my pills. My back is killing mel (3017)

What left diseast realize k that, as part of CGW's new yearth outrouch movement, all the editors will get body piercings for next month's issue. Wish Jeff luck on his upcoming rapple ring at jhgreen@zd.com.



With its hove 15-inch display. Pentium\* II processor at 300MHz and the great 3D graphics of its 8MB 2X AGP video card, the Dell' Inspiron" 7000 D300LT is almost like working on a powerful desktop.

Except its power moves around your home. Where you can build your own website or surf the Internet in the basement. Balance your checkbook while watching football. And catch up on e-mail in bed. Visit our website or call toll-free to buy.

All-in-One Multimedia Performance

. 15" XGA Action Matrix Director · GAMB SDRAM

- . 4GB Ultra ATA Hand Drive . Removable Combo 2400 Max\*\* Venable CD-RDM and 3.5" Fixony Drive . 2X AGP BMB ATI Rago Pro 3D Visino · 3D Surround Stand and Hardware Wavetable
- · Intelligent Lithium for Battery . Internal SEK Countries Data/Fas Modern . MS\* Home Essentials 5B with Money 5B · MS Windows\* 98
- Touchered · 3-Year Limited Warrants<sup>4</sup> . Upgrade to a 6 4GB Ultra ATA Herd Drive.



800-433-7841 M-F 7a-11g + Sq-Su 8a-8g C

In Canada\* call 800,839-0148 In Mosico," call 001-800-210-7807 GSA Contract #GS-35F-40781

UILD YOUR OWN AND www.dell.com/direct

add \$149



For faster service, please have your order code and keycode available when calling. Personal leasing arranged by Dell Financial Services L.P., an independent entity, to qualified customers. Amount of monthly lease pryments above based on 35-month lesses. All above meetily lesses properties exclude toose which may vary lite example, Hardford City, IN sales tax "55-60/month). Shipping cost due with first payment. No security deposit required; subject to credit approved and availability. Lease terms subject to change without notice.

## GO CONFIGURE.

www.dell.com/direct

You don't always have time during your busy day to call and talk to someone about a computer. Now you don't have to. Because Dell's website means you never have to pick up the phone. You can custom configure and buy your own system online, exactly the way you want. You can check on your order status at anytime. And receive technical support 24 hours a day. We believe it is the easiest, smartest way to buy

a system. So stop in for a visit today.

For directions, see the headline.

#### DELL® DIMENSION® DESKTOPS

Common features: Mini-Tower Model • S12KB Integrated L2 Cache (129KB on Intel Service • 3.5' Floggy Disk Drive • 2 Universal Senal Bus (USE) Ports • McAles Viru

DELL DIMENSION V333c

### MEW DELL OIMENSIDN V400

\* 64MB SDRAM . 8 AGB Litra AYA Hard Drive

. 15" (13 7" vigwalate) BOOF Monster ATI 8MB 3D AGP Graphics 40X Max" Variable CD-ROM Drive Yamaha XG 64V Wavetable Sound harman/kardon HK-195 Speakers

· MS Works Surto 99 with Money 99 Basin · Dell DrietKey' Keyboard · Log tech First Mouse+ Wheel (PS/2v) \* Unappele to a NEW 4 8K DVD-ROM

Ornes, add \$50. \* (Asserte to 12MAR STRAM and \$140) \* Doorade to a 17" (15.9" unwebbe) 10001 S Montey, and \$60

#### . BAMB LOOMED SORAM . B 4GB Ultra ATA Hard Draw • 17" (15.9" wemable) 1000LS Monto

. ATI 8MB 3D AGP Graphes 4.BX DVD RDM Drive Yamaha XG 64V Wavetable Sound

· harman/kardon HK-195 Speakers . MS Works Suite 99 with Money 99 B . Lognach First Mouse+ Wheel (PS/2)

\* Unpende to a 171/16.01 wassable 2 Toweron 1000HS Montos add \$99 ◆ University to a NFW 12 9GR (Res AT) \* Unavade to 1288AG SDRAM, add \$1-

> \$1699 Personal Leona" \$64/Mo. Mos.

**DELL INSPIRON 7000 D264GT** 

. 14 1" XGA Active Matrix Display

· 4GB Ultra ATA Hard Drive

BASAR STRAMA

PENTIUM II PROCESSOR AT 266MHz

· Borrovable Combo 24X Max" Varia

. 2X ADP 4MB ATI Rase Pro 3D Video

· Internal SSK Capable\* Data/Fax Mor

CO-ROM and 3.5" Floory Drive

. SD Day Total Office Consent Direct

\$**1299** Personal Lease\* \$50/Mo . 36 Mos\*

#### DELL INSPIRON® NOTEBOOKS

Common features for Inspiror 3500: 3D Surround Sound and Softwern Wa

#### MS Windows 95 • Touchgod • 3-Year Limited Warranty: Correspon features for Battery • MS Windows 98 • Touchsad • 3 Year Limited Warranty

#### NEW DELL INSPIRON 3500 D233XT PENTIUM II PROCESSOR AT 233MHz

- . 13 3" XGA Active Matrix Display SOMB SORAM · 3 268 Ultra ATA Hard Drive
- . Modelar 2/00 Mov<sup>11</sup> Versible CD-ROM · Modalar 3 5" Floggy Drive . Dekres Notes Case · MS Home Essentials SB with Money SB
- Internal BBK Capable<sup>®</sup> Data/Fox Mexicon with 20-Day Tripl Offer ConnectOract Internet Service, add \$997 \* Upperade to 2-Year Provider Grunder
- \* Unorade to BAMB SDRAM, add 599

Hord Drive, add \$149 ★ Uporade to a Removable Combo ZX





Personal leasing arranged by Dell Finan Soraces L.P., an independent ecities to quali



embles commence as a process of partners to be the Courter of process to be the Section of the Courter of the Courter of the Section of Section o

customers. Arreget of monthly lenge payer sheer based on 26-month leave Allah mentily lease payments exclude toxes wit may yarr (for example, Harrierd City, IN at tax "\$2.50/morable Shapping cost due with payment. No security degent requir subject to credit approval and exalists Lease terms subject to change we thout rate Internet: Promotion hasted Sectional Conference I SR 990 PO Telephony Workloadon Conference Trial Office Connect State of Internet can • MS\* Windows\* 98 • 3 Year Levilled Warranty\* • 1 Year At Home? Service Upgrade: 3 Year Previer At home? Service, add \$89 **OELL OIMENSION XPS R450** DELL DIMENSION XPS R450 DELL DIMENSION XPS R460 PENTIUM II PROCESSOR AT 450MH; PENTIUM II PROCESSOR AT 45 PENTIUM II PROCESSOR AT 450MHz . ANW 17 2GB Ultra ATA Hand Drive

. NEW 12.958 Ultra ATA Hard Drive . 17" (15 8" www.obile) 1000LS Monitor · BMB AT LYPERT SED 3D AGE

• 4 BK DVD-RDM Drive . Turble Reach Mandage 43D 64V

. harman/kardon HK-155 Speakers . MS Works Suite 59 with Money 69 Banic

. Dell DuietKey Keyboard · MS IntolkMouse\* \* Inmose Zin 100MB Internal Drive

with Two Curtospea, and \$55 Choosade to a 12" [16 0" viewable. 26dal Torotoco 1656HS Movetor, acid \$35

\$**199**9 Personal Loase" \$75/Mo , 36 Mos

OELL INSPIRON 7000 0300LT

PENTHUM II PROCESSOR AT 300MH

. 15' XGA Acces Moores Oracley

CD-PDM and 3.5" Floory Drive

. 30-Day Triol Other Connect Direct

98 • MS Home Essentials 98 with Money 93

. Machillar homega Zip 100MB Internal

\* Ingginger 7000 Part Replicator, add \$149.

. ZX AGP EMB ATI Bage Pro 3D Welso

. Removable Comba 2-0X Max\*\* Variable

. Internal SSK Capable\* Data/Fas Moskra

. 4GB Ultra ATA Hend Drive.

· 64MB SDRAM

Internet Service

Drive, aski \$148.

robie . NeoNagic MediaMagic 256AV ASP Video . Intelligent Lithium for Battery

assisse 7000: 3D Surgard Sound and Hardward Wavetable + Intelligent Lithum Ion

• 17" (16 0" viewable, 26dp) Transon 1000HS Monetor

· SAMB ATT MEET 980 SO AGE Graphics Card . 4 RX DVD. RDM Dake . Turtle Beach Montego A3D 64V Sound Card

. ACS-295 Speakers with Subwooter Increro Zip 100MB (massa) Drive MS Office 97 Scroll Business Edition.

. Dail Confort Key Keyboard · MS Intel Mouse ◆ Uppende to a 18" (17.8" versable 26dal 

OELL INSPIRON 7000 0300LT

. 25" XGA Active Motors Display

. 6 498 Lityo ATA Hard Drive

and 3.5' Floppy Drive

Internet Service

Dina add \$149

· 64MB SDRAM

PENTIUM II PROCESSOR AT 300MHs

. Florrovable Combo ZX DVD-FDM Drive

. 2X AGP SMB ATI Rapp Pro 3D Victor

. 30 Dow Tried Offer Downer (Direct

Internal S&K Capable® Data/Fax Modern

MS Office 97 Small Business Edition v20

\* University to 1288AR SCHAME JUST \$198

\* Modulor lamona Zin 100MII laternal

Personal Leason 984/Mol, 35 Mas

Order Code #161207

. NEW 19' (18 0' womable, 26dg) Torriton P950 Monitor

99 Basic

PRINTER

HP DESKJET: 722C

. NEW 17 2GB Ultra ATA Hard Direct . MEW TRMR STRUMENT THE YOU AGE Graphics Cast . 4 RX DVD-BOM Drive and Departer Conf. . Turte Beach Mantenn ASD 64V

. ACS-495 Dolby Surround Sound Speakers with Subwender . Immens Zip 190MB Inserval Drive . MS Warks Suite 99 with Money

. Dell Confort Key Keyboard • MS IntelliMouse \$2799

Personal Losson \$106/Mo , 36 Mas.

PRE-LOADED SOFTWARE Microsoft' Office 97 Small Business Edition v2.0: Word 97, Excel 97, Publisher 98, Outlook

98 Small Business Financial Mgr 98 and Fanado Streets 98 Microsoft Works Suite 93:

99 Basic Window & Sar Window Colorador. Graphic Statio Greatings and Expedie

NSION SOFTWARE BUNDLES исм Fast Track Game Pack \$70:

Tarels Finaler 2: Jack Nicklaus Golf 5.0. Trans. Adventure flut of Time, Harchell Quicken 39 Power Bundle \$79:

Outcine Delate 50. Outches Favoreral Planner, Ducken Family Lawyer and a coupon for Durcken Turbo Tax 99

## THE GIFT BOX

SSO MAIL IN REBATE WHEN YOU BUY CENTAIN DELL DIMENSION DESKTOPS INCLUDING MONITOR AND SELECTED RP PRODUCTS, OFFER ENDS 1/30/55

\$166 U.D.L

. Photo quality printing on any paper . PC Massacian's! "Editors' Choice" . Up to 8 pers black, 4 pers color . Add a printer cable for \$25

SCANNER MEIN HP SCAN JET 4100Com

. Uses HP's Eacherya latellicent Scanning Technology . LKR\*\* connectivity for easy installation . 630 doi: 1200 doi enhanced, 35-bit rolos

POWER STRIP APC SURGESTATION PROUTS

For faster service, please have your order code and keycode available when calling

. Holos gentert war system graving

· 8 outlets with block spacing for 3 outlets Provides \$10K remigrant protection warrants

\$30

\$100-727 MAR

**140** 

Personal Lease" \$127/Mo., 36 Mos.

Personal Leason \$112/Mo., 35 Mos Onder Code #801212

ACCESS SPECIAL PROMOTIONS DESIGN YOUR ICEAL COMPUTER ONLINE CHECK THE STATUS OF YOUR DROFTS

ACCESS 2019 ONLINE TOOL SUPPORT

TO ORDER TOLL-FREE 800-433-7841 M-F Xx-Rn + Sx-Sx Rx-Rn CT in Carodo\* rall 900-839-0148 In Messos\*call 001-800-210-7607

**BUILD YOUR OWN AND ORDER ONLINE** BE DIRECT www.dell.com/direct

## INTRODUCING **DELL'S** ULTIMATE **SENSORY** EXPERIENCE.



(IT'S A SHAME YOU ONLY HAVE FIVE SENSES.)

Open your eyes to the Next Big Thing: benezembrie multimolia last unmale une Dell\* Dimension\* XPS R400 to immerse voorself in a world of blating graphics and explosive sound. The upgrade's Trinstron monitor, 16MB graphics card, bigh-end sound card and percently small speakers are descent especially for the rich graphics and tons of cutting-edge 3D games and multimedia websites. Voir dell comflicect or give us a call for the observe offs to your exchally and conferen-

#### · 1998/0 INTURA STIBLE

. AYW 12 958 Ultra ATA Hard Drive

. 17" (18.0" vigueble: 264s) Triottroi sortected SHOOTS . BMB STR Widte 3D AGP Graphies Card

+ 4.BX DVD-RDM Drive and Decoder Card . Yurtle Beach Montego A3D 64V Sound Card . havman Acardon HK-195 Specificans 9Cnm<sup>®</sup> LISB V90<sup>®</sup> PCI Telephony Workforders . 30-Day Trial Offer ConnectDinact\* Internet Access

. Inceppe Zin 100MB Internal Drive . MS\* Works Suite 99 with Money 99 Books McAtce WrusScan . MS Windows" 98/1stell-Mouse" . Dell Confort Key Keyboard

· 3-Year Ucrited Warranty

## Paragnal Leaso" \$83/Mo . 36 Max\*

SENSORY DVERLDAD UPGRADES \*NEW 19" [18 0" viewable, 20dp) Travitori

Page Monton · NEW IRMS STB MINN THT 3D AGE Greenves Conf. NFW Tyrtle Reach Masteon 6.43D 320V

\*ACS-495 Dollar Surround Sound Sounkers WAST STEWNOOR ADD \$275

Order Code #581215 TO DROER TOLL-FREE

800-433-7841 M-F 7a-11a + Sa-Su Ra-Ra CT In Canada," call 800-839-0148

UILD YOUR DWN AND E

In Mexico\*col1 001-800-210-7607 BSA Creativest #BS-35E-40780

www.dell.com/direct



For taster service, oleans have your order code and knycode available when calling onal leasing arranged by Dell Financial Services L.P., an independent entitled castomers. Amount of monthly lease payments share based on 25 menth leaver manthly lease payments exclude taxes which may vary five example. No III was tax 34.14/menthl. Shipping cost due with first payment. No accessity discrete, share to credit approval and waitability, Lease terms subject to effect, shaped to credit approval and waitability, Lease terms subject to effect.