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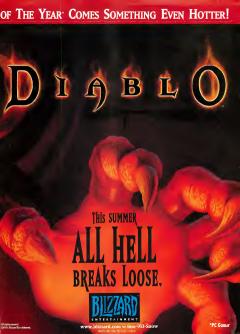


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55 3D Accolerator
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Valoh side /on gorne take?





Jeff Green was recently optioned from another Ziff team for a graft choice (Anchor Steam?) and feture considerations, Former reviews eafter for AfactVEEK and a book editor prior to

hat. Jett irons CGW as the new Sports reme and Adventure game editor. He cisims the rig



Peter Olafson is a veleran namer and CGWs action games contributing editor. A former editor of the dearly departed Arrapa World, Peter was unable to retinguish his collection of the venerable relics. He now secretly harbors.

crous training regime began early in life. He graduated from high school with a Master of SPACE INVICENS and majored in Missue Connection and Devicor's Lan white attending UC Berkeley. Jeff was born in E.A. and is CGW's Mac gaming expert, but the editorial stall holds neither against him. Though a child at heart, Jeff retires harre to play husband and lather-whenever we let him escape.

Two Amigas in places of high worstyp. throughout his house, which he shares, with his rafe, Evelyn News of New York Times-columnist tame, and a menagene of small animals. Peter is the author of the strategy ourges. Flavu Flavousy III and THEN DEPARTMENT AND IS CUTTENTLY WORKING OF teo telenios.



Mark Clarkson's brain isn't in Kansas, atymore, but his body is trapped there. Denying that he was the inspiration for Screening's Eastly, he claims to have in four years of treetance writing in the Great

Plants state. He has genned numerous articles for a venety of magazines, from Soviff Unwerse to Family PC, as well as CGW Dabbling in systems admiristration and game production. Mark professes to be an artist. with portiouter interest in 3D rendering and



Scorpia is not only the most tenured authority for adventure role-plasting reviews, but the industry's longest running "mystery woman," as well Publishers.

have been feeling the sting. of CGW's Adverture Games Contributing er, an Apple III+, back in 1981. In 1982, she co-founded the orlginal GameSiG on

CompuServe, where publisher Pussell Sipe discovered her and asked her to write for this magazine. Thus began the Scorpion's Tale in 1983, and the rest, as they say, is hersfory Amusbly the most expenenced. most outspeken critic of unimaginitive or stoopy adverture game design, her loyel audience wouldn't have her any other west Aside from her monthly columns here. Scorpia can also be found online on GEnie. Delphi and AOL.



Jill Anderson wears but hale as CYCIN's News Eritor and CO BOM coordinator. but fortunately she is a mes cut her teeth on technology gurnalism while working as an associate editor at the late Mossib's

dia developers. When Jiff prined the precipme-

narriy male staff of CVSW, we had our concerns how an honors graduate from an allfemale college would fit in. Those fears were put to rest when Jill won the beer-chapping contest at her first staff har count, annienestied the editor in chief, and told enough offcolor rokes to earn the mickname Barnacie. .HI She is as close as you can get in room guter industry journalism to Kaven Atten's role in Radius of the Lost Adv.

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Oww.ncteaver Beasemput, and White Grezon Hooser damos all July physite Finally, winth with some sport starting in Tainere Bass, all from the control and convenience of your PC. So, it sports is your game, prepare for some action. Sorry, no popolors, no enture, or Christer Jaines iniciated. Our Editors Hot Picks gives a three our salatie to the Editors! Editors-three scenario editors for SSI's ALLED, FANDER and PAUGER GENERALS-and hospids the sequel with inventor's

Osservi II and Bizzard
Entertainment's Waceser III. Offer
playable demos include Activision's
Zore Navess, Time Warner's
Return Eric, Peu P Mallowe: Private
Eve by Byton Preiss and many
more

How Do I Use 11?

Our Ob Is Windows program: I you have Windows 95, installing to 18 single the Ob I Audiops, in single the Ob I Audiops, emailed, Just Tuck in Roar. Otherwise Commitments of Other

aleady on your deallog. Point and click in amyalar exorut for EO, just as you would in any other Whorlows program. You can access any of the "Man Affaction". Items youth as Product Demos or Patchas from within the Primary Bunders "Supples Affaction." And you may exit the "Surprise Affaction" at any time by this clicking on the "Basic bullow. Has

ous versions of the CG-ROM, this

disk will use the program group

clicking on the "Home" button.

How Do I Access The Demos?
To view the demos, tirst click on.



EDITIORS' HOT PICKS or PRODUCT OEMOS. Next, click on your tavorito gerne: Action, Adventure/Role Playing or Strategy/Wargames, then click on the title of your interest. Each demo has instructions for its installation.

How Do I Get The Patch Files?

Click on PAICHES under the CGW FATURES and then road the lead window with instructions on copying the files to your hard driver. You also may access the postbes from your DOS prompt by typing DEPAICHES (where Dr. is the latter of your CD-90M driver) and copy them directly from them to your hond risks.

How Do I Get The

Newstand issues come in two varieties, some with and some without the CD. Each type is clearly maries. It you can't find the version you ware in the store you lirequent, encourage your retailer to carry it (or, subscribt to ensure you got a CD every morth). To subscribe, simply call 303-655-9830, and sepoch that you want the CD Politics.

How Do We Classify

Action/Arcade (AC): The emphasis is on hand-eye opordination and reflexes, usually emphasiz-

version



ing tast play over story or strategy. Adventure (AD): Games where-

in you control an after ego and move through a storyline or sequence of events, where puzzlesolving takes precedence over conversation and combat

Classics/Puzzles (CP): Classics are old stand-bys and parfor games that appeal to many difterent types of carner. Examples include: backgammon, bridge, chess. Monorox parchesi, Risk. and Sources. Puzzla comes are computer games which emphases spatial relationships, word pames

and/or problem-solving without

requiring earners to follow a storyline Exemples would be Savanian Terms and Zur-Zug Role-Playing (RP); RPGs are a subset of adventure cames, but stress character development, often through improving stats or other attributes. Conversations with nonplayer characters (PIPCs) and tacti-

cal combat are generally more important than in Adventure comes Finally, the game world tends to be taron, and the plot less linear often with some quests/treks outside the main storyine Simulations (SI): Highly real-

istic games from a first-person perspective; you may drive a realistically simulated race car, fly a military aircraft with a meticulous physics model, or swoop through a detailed sci-li environment. Usually polynon-tilled technology is used to build the simulated

world on the fly Sports (SP) The sports game category is a broad genre which includes action (NBA Live) and strategy comes (Front Page Sports Formus Pen) based on sports

Strategy (ST): Problem-solving. short- and long-range planting are the keys here. These games almost always emphasize resource and risk management. This genre includes control-based sol-tr and fantasy pames (X-COM, Ourrost, MOO), as well as "pure" strategy games and

"software love" such as SwDry. Wargames (WS): A subset of strategy games, these recreate historical conflicts from a command perspective. They may be tactical. operational, or strategic, and stress anything from logistics and firepower to morale and leadership. They may be simple (Pvinzer GENERAL, EMPIRE II) to incredibly detailed and complex (Pacific Week

What Is Your Reviews Policy?

1) We only review from the final copy of the game. Though it has become popular among PC garring magazines to review from late beta copies, we feel that the reader is best served by having the reviewer look at the same copy of a game that the readers will find on the shelves. While we recognize that this causes some delay in coverage. we believe the rearder is better

served by such caution. 2) We expect our reviewers to tinish the game. We want our readers to be assured that we do not review based on immediate or early impressions of a come. Our reviewers give a game ample opportunity

to show its quality in some cases. bugs make it impossible to finish a game, but we identify situations. where that has occurred 3) We make every effort to match

the reviewer to the game. We take into consideration the preterences, background and possible biases of the reviewer and. where possible, we and people with actual the experience or special backgrounds that match a game. We believe this policy enhances both the credibility of the review and the enjoyment of gameplay when the real world and the name

> pared. 4) We do not accept tree travel from software or hardwere companies. We believe such oills have a taoit assumption of coverage attached to them. We will only cover such events/launches as me believe will benefit our

readers &

world are competently com-

HOW DO WE BATE?

The rare parte

noht. The graph-

Scoetter to form a

Experience Our

Very Good: A Non-quality game that succeeds in many areas, May have minor prob-Terms, but is still especially if

Average: A moved been Conbe a game that reaches for the stays, but latis short in several ways. Can also be a game that does you're interested what it does well. in the subject but lacks tlair or matter or genre. orginalty.

Weak: A game with serious mob Jama Ukusily buggy, seriously lacking in play value, or just a poorly conceived name designyou should think long and hard

Abysmal: The ram come that gets it all wrong. This is reserved for those products so buggy Weenceived or vetue less that you wonclar why they were ever released in before buying it. the tirst place.



ADVENTURE GAME OF THE YEAR

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GAME OF THE YEAR

JERRY POURNELLE, BYTE MAGAZINE, 19

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3D Or Not3D

That is the Ouestien for Gamers of all Types

f I were "just a gamer" instead of a garner who covers this industry for a living, I'd be asking myself a question. That question is, "Why does it seem I'm always itering to upgrade my machine in order to get to that next level of came experience?" The follow-up question is, "Why don't these next levels bacoen by programming alone?"

The answer to the second question is that to a certain extent they do. Some fanatic programmers the the guys at id manage to give us a new type of experience and it causes a revolution. As other teams try to raise the ante on the programming breakthrough. They put more and more pressure on the hardware. Eventually, the programmers reach a critical juncture, a point of diminishing returns. They have accomplished miracles, but you can't tell they have because they've caused just enough burden on the hardware to creete a noticeable performance hit

This is when we need hardware to mave to the next level. That's part of the answer to the first question. You are constantly being challenged to upgrade your machine because the game programmers are constantly challenging the limits of the available

it's because gamers tend to buy the types of showcase products that exploit the newest, fastest and most powerful machines. Game publishers know that gamers who purchase the latest and greatest in hardware are the most likely to buy software products that show off the capabilities of that new hardware. So, they constantly overshoot the mark in terms of machine performance in order to ride that upgrade curve.

machines. Why? To a large extent.

Sometimes it backfres when they get too far ahead of the curve (as it did for developers who were first out with Windows '95 native products), but sometimes it can be very lucrative (as it was for Sierra's Kan's Duest IV and Source Duest III when the first 8-bit sound cards arrived, and for Drigm's Wws. Constitution series of each step of the 385, 485, Pentium upprade cycle). So, the issue sametimes seems like a chicken and egg question.

GAMES IN THE THIRD DIMENSION

We are now at that point with 3D accelerator cards. Many gamers will plunk down several hundred dollars over the next six months in order to get a performance boost on 3D games. Others question time, but new games fike whether 3D hardware will be worth Interplay's STAR FLEET ACADEMY) the price. They're asking, "Aren't. with more detailed ships and tex-

∠∠ 3D will improve every gaming genre, but it has its

price. 22 these new cards just a new toy for those flight sim guys?" and "Will these cards enhance the experience enough to justify the prior?" Well, 3D isn't just for flight sims.

anymore. Action gamers know this. ers are beginning to discover that They've seen first-person point of 3D game environments seem more view games (like DDDM and Rise real than the classic 2-D rooms of OF THE TRUMP) that use 3D tricks in 2-D space transformed into real 3D products (Ne Trenaswros, Furuse Seack and Duxer). Even the stable of action gaming, horizontal scrolling fighting games, have matured to a point where they have a third dimension. Space combat games the Wive Communiors and Michigagene have used 30 to renresent space compat for a long

ture-maps, as well as special lighting effects, are impeding the space held by these two leaders. Recently, we even saw a

ciriwing/shooting game, once the no-brainer capitol of action caming, in development that takes place on an ice planet and uses full 3D and a sophisticated physcal model to handle friction (and lack thereof), height, slopes, scend and more 3D has added tremendous new depth to the

Adventure gamers and role-play-

years past. Alone in the Dask. Ecstwick and Recentless proved the appeal of 3D in adventure games, but you haven't seen anything, yet, Mindscape's Dass. EARTH, Psynnosis' Ecstyrica 2, and Psygnosis' City of Lost Children are some of this year's titles that will be cutting edge, with Sierra's King's Queer VIII coming along next Christmas with a distinctly 3D emphasis Sports gamers will soon discov-

er what a difference 3D sports can

WWII Grand Strategy Game



WWII would have developed if the during WWII. The game includes air, the many "what ifs" of WWII. Third Reich PC can be played by two players or A.I. There are four scenarios provided, war from 1939 to 1946. Third Baich PC #45959 runs on IBM PC CD-ROM and compatibles. To order, call 1-800-999-3222

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can be played alone against the sophisticated simulating the strategic situations in 1939, 1942, 1944 and a game that covers the entire

and ask for operator CGW7, or E-mail us on CompuServe: 72662.1207, America-On-Line: AH Games, or the Internet: ahgames@aol.com. You may also want to visit our forum on CompuServe: go GAMECPUB, our industry connection area on AOL: keyword AVALON HILL, or our worldwide web page at http://members.aol.com/ahgames/avalon.html



meen-even to the statistics-oriented, "manage only" crowd, Tired of having a limited number of antmated sequences for each type of hit, tackle or stam dunk? 3D

graphics built around physicsbased models of terrain, atmosohere, and olivers should provide a variety as encless as real sports. For example, I'm not a soccer tan. but I recently saw a Furnnean title on the Playstation that was unbelievable. The different kicks, camera angles and shots are phenomenal. Even though tim not a fan. the extra element of realism nulled me in. Action-oriented and statsoriented sports namers alike will

benefit from the emphasis on 3D. My tavorite games are strategy and vargames. I particularly the historical warpames. When you remember that I come from a boardgame background, what I have to say is of particular importance. I used to think that hexbased maps were enough fand sometimes, they are), but the fact is that 3D enhances historical warpames, as well. Now, we can have colorful Napoleonic era troops charging across a battleheld-not lead soldlers on a miniplures table, but animated floures with an Al all their own. Being able to take cover behind 3D terrain and having movement realistically affected by the terrain reflects just some of the advantages of outting strategy and

warnames in 3D. Ot course, someone might say that puzzle and classic cames don't benefit from 3D technology. Even that may not be true. When I solved the broken cup puzzle in Repeat I suddenly telt that the 3D had both enhanced and detracted from the puzzle. The detraction was an interface problem, but the puzzie itself was intriquing. Since many names shops parry entire

fines of 3D ouzzles, there may be a new style of puzzle game on the computer that will benefit from the technology Di course, 3D animation hasn't hurt classic games. Witness the tageliffs 30 has given the multimedia version of Maspecis and some of the later BATTLECHESS products:

HOUSE OF CARDS

The bottom line is that almost every game genre is starting to get its share of 3D products, Many of these games will be written to take advantage of Direct-3D drivers in Microsoft Windows 95 which, In turn, will run faster because of 3D accelerator cards, il you. His me, think that 3D significantly enhances the gaming experience. you know that you'll need an appeterator card. You've already seen how the processor-intensive calculations of new 3D names is starting to bit overall game performance. Imagine what happens as artists try to gut more and more details on the textures, Impoine what happens when improved Alroutines hit an already overworked processor. Then, what started out as a positive, suddenly becomes a

negative. Yes, if I were "just a gamec" I'd be wondering if I'm really online to need one of those new 3D cards. As "just a gamer" who covers this industry, I know I'm going to have to have one. As a magazine, ser've chosen this issue, before many of the cards have actually bit the market. In hein get you up to speed on 3D technology, give our expectations on the coming cards, tell you what to look for in a gaming oriented 3D card, and explain what different features mean to you. We've been as practical as we can and we hope our special coverage this month will help you answer the question \$

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What You Say Could

Combining First Person 3-D shoot em vating storyline-essential to the Gamerlay AUP ACTION WITH RIVETING ROLE PLAYING YOU WILL BE THRUST INTO A WORLD WHERE YOU exements, strips becomes the first came most right to crysh the Order, utilizing you to fuse the spectacular Dooms engine with an all-consuming interactive MULTI-PLAYER ADVENTURE THROUGH CHARACTER DEVELOPMENT 30 MASSIVE LEVELS, OVER 200 VIRTUAL SQUARE MILES TO

EXPLORE, AND A CART

BRAID, YOUR WIT AND OF COURSE, AL awesome assenal of WEAPORS YOU'D BETTE PREPARED TO FIGHT FOR THE TRUTH, AS YOUR VIGILARY ENEMIES and backstabbing traitors will MAKE YOUR TASK A LIVING HELL REMEMBER trust no one.

Trust na one



LETTER OF THE MONTH The the new femous, but please being back "Under The food." It has belood countless times in the past Dans Barthowick Onder, UT

We never actually falled "Under The Hood "Land Case's column covers the same subject matter and even has helpful hints for setting any your hardware to get the best garning experiences

er shops the other day and I restued a

wend thing Most of the games and

utilities were for Windows 95. Latta

WINDOWS WATCHING I was cruising through the comput-

not comently a Windows 95 uses became Hike plain DOS and I think that the conventor evolution which Wio 95 is currently at is not wooded. So many people have 486s with 4-8 MB of RAM. Litested Win95 and found out that almost 90% of sames and utilities would not run or would be very slow due to memon shortage. I think it's not fair to Win 3.1 and DOS users, Windows 95 is taking over the computer market and I think it's correctly way. ahead of computer technology itself.What I mean is that computon that run Wo 95 fast are so. expensive and most people have 486s making it impossible to nin and use games Thope Microsoft would reconsider the RAM and other abilities of computers that

> Afrike D. Andrews Internal Subscriber

Game publishers have to continually one for a moving target. It is a chicken and ese situation. If remapublishers den't blan to author the Inditest machines donn the live with the hottest year features, most recover will straply discuss that publisher as

being areliate and out of date. So. gome publishes have to look at the potential machine base around 18-24 succestis, in the future. As they develop these names. I can aware you that they are not thinking of 486 machines with Avoited RAM. At press time, the gressive meeting "on sale" was a Pentison 153 with more than 12 MB of RAM and more than a LCB hard disk

(Source: Ziff-David' Consumer PC Indexi. The best use of that power is currently through Wardows 95 games Win 95 is the best transitional tool we have for potting the computer game and suby to improte to all standard disvers for squard, rideo, 3-D, b) true 32hit countration that will eventwelle enable in to use Pentium Pros for ganing and go beyond; and c) stavdurd connectivity for multiplayer manus with elaborately hardendone

percent solutions SUPPLEMENTARY. MY DEAR WATSON

Loved your Playstation coverage in your May issue. As a Ignortion. owner of both PCs and ennsoles. I felt that there were many cousole games that were just as good as their PC counterparts. How about some coverage of the Sera Satura? Considering the recent terralations of several Saturn munes for the PG and vice-ways of I'm not unistoken. COMMAND AND CONQUERTS being developed for Saturn), as well as the large number of RPCs and strategy sames coming out for Satura (expeetally by the company Working Designs, which specializes in RPCs and strategy names), it seems that

coverage of Saturn is in order. Walter "Psycholitels" Your Comell Linearity Thanks, Walter, We thought it was a morrelous supplementary section, as trall. Unfortunately, our opmost trax a

usuarity view. Flore are a couble of the negative letters

10 pages on the bloody Playtotion? Why?? Do remember that you are a computer garning messine. In fact, you are the facet committee earning magazine. But if

this console schlock becomes a trend. I'll have to sethink that jude-Brian Criffio

Rollefresto Pit.

Plantation in CCW2 Pub-lowe! What next? Come Boy cover stories? Keein Bender Alberto CA The Planstation supplement was a

take any pages away from our regular PC coverage. We wanted to money the interest of our readers in looking toward publishing our own Plantation book We feel to read about that market that our power econtains 286-Donte has not turchased Sendar Publishing. This means that you will be able to get council game coverage to our other books, but that there will be so used for Computer Caving World to shipheate that coverage in our traver. However, to those of you who were

self-supportive section which dish Y

augre about the Plantation supple-To write a letter, send e-mail i CoccosServe 767/3.622

Internet: 76703.622@com person/e.com centrite or at-Computer Caming World Letter To The Editor B5 Main Street, 19th Floor San Francisco, CA 94105

most people have



ment, read my type — "No new connects exception."

LEFT LUGGAGE DEPARTMENT

Bettur a lefty. I feel for John Penner (the mader in CCW) Abilia he becomed the lack of left-handed jostické. So, let me recomend a good left-banded tosstick the QuickShot (OS206) Slamaster). The throttle is set lose on the left, aware the extra bottoms and turbo witch, and the trinicontrols are set on the right, so no more litting them with the side of your hand when hanking left. The grip is not very special, and only diability form fitting, but it is symmetrical and fits the hand well, plus it has a rubber palm pad. I hope this belgs. Left handed periole rolat

Done Mills

LAP TO THE FUTURE

Having read your laptors-a ticle in the April issue and having played ON II and Ch'NET recently I'd Mar to discuss some worthers or the errorpoter narrow manager of roy choice. I have a long experience in computer examing, and I think we have seen a lot of fantastic games. lest take a look at the CGW Hall of Firme: CAYLIZATION is one of those great sames of all times, and I think the two successor games, Co/NeT and Civ III, are demonstrating the direction ramons should take Olive Civil is a great game and the Improvements unade in comparison to Covazzation are well cone But the improvements in Ca-Nex-

to Consistence we know.

But the improvements in CarNets are exert more welcome, because latting it out with real opponents is indirectly more interesting thou paralleling stone computer dogstation.

Better gaughtes are free, but better gaughtes don't mean better game page. This concerns the form, but stone are formed from the first game.

Sear Holl of Hune, lattices.



compare that game to a - hypotheticully-graphically enhanced (KANTEULRY 2 built sheamhand gameplay, more units, more mapand some added features. Which game would be the better one? O'r bangan Run navo Treccon with notwork capability. Creat game? Right. What about simulation? Do we really have to wait that to make the control of the cont

melude modern-olay. And now

KAMPICROPEC and

long for WORLD CIRCUIT II, which a no visocom aun finou vidadore PSD-mehine when all we need in Word D Circuit with network capability? We do need more games Me CoNEL NOMED OF Watersort II (honefully Atsenue) ov-Onon II will be of the some kind). in short, games with multi-player cateobilitis And you don't need 64 AlB of RAAL and a Brottum 200 to make decent games, just look at Sescrimono Hot still a first eleschoice if you like to have some fun with a few friends. Or take even 1830, where you don't need even a network, but can play it hot-seet.

So the next logical step in computer gaming is the laptop! A Penham 90 or 100, 16 MB RAM, quad-speed CD-ROM, I CB handdrive, not necessarily a sound-card (who wants to hear the samula of five machines, when you are notplaying with your friends, anyony) and a retwork-card (hopefully build in). That's the garring machine of the caparing machine of the caparing machine of the caparing the Beause you won't find mass people among your friends with mental spaces in districtions to launce four dealing computers.

machine of the east butter Because you world find mass people among your friends with causely space in thick rooms to hause four deskiep computers with 17 inch mouston, and you will find even less who will want to hauf their machines to their friends' houses or chibitose every second weekend or so. The Lippion

is the told solution, and so need the prices of them to conver demonstor before the prices of them to conver demonstor before the prices of them to the constrained for the processors and the minimum superments for eighting a new paner menting are Testmon-15s with 32. Mill RAM, thoreof heptos with the affectable it words be risk, of we then had the right games to play our those "takedomay low teels".

Christian Jentosch four the lotenset

In the sevenh of Lawyl-Iniv Arte Johnson, "Very interesting?" We are seeing this of Epitopia Jeggiorung to enter the consumer anothet and, asyour probably noticed in our sonery, a few of them are assisted for graners. Most of the graves we in average of press time work relatively well with Touleblast 400 CDT with 1950.

TIP SHEET
You need a bint and tio

section!
Redrigo Ferrer
Cronwell, CT

How's this for service? Hints and tips may be found to the CC Tips box at the corelation of each genre specific columns's surfing and axing. This way, fous of every genre get something in every issue. We also after a "Dip of the Day" as our AOI, edition of the magazine. Knyword: CCW.

SPOUSAL OISUSE

SAGE ADVICE

Are there any support groups for reglected sporses of computer sames?

Onlesso, WI

No, but our Sex Addicts Ausunaum chapter how relembered

do stari otas,

The best advice you could give computer game toy or inday is to obvoy wast four-six months after a game's initial release before boying it. The allows of time to each the section is a CCW by time for the v1. patch file to be released; and c) from to shop for the best price. They II have all the fun even one clue two.

but much less approvation?

Jeff Petruska New Boston, MI

Okay, Ell peus this on, but you have to exploite the each flow problem to the CFOs at the same tubbishess.

They'd shoot us CORRECTION

If here eather to our attention that the Crystal side Series 140 sound cord potential on page 50 of our face true was not a Crystal side Series 140. Here is the correct parture.



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THE WZANORY SERIES HAS SOLO HILLIONS OF COPTES WORLD WIND: THIS FALL, SINTICEN USHIES IN NEMESIS, THE WORLD'S FIRST WILKARDEY, ADVENTURE, AN SIRTICH "WIZARDIN" IS A MANIE A PRODUCT FARIES, AND NEMESIS HAS BEEN PUT THROUGH THE WERNGLIN.

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Attack Of The Game Nets

Over 10 Companies Jostle For Turf In Virtual Playgrounds

extral teams are hittna the field of on-line gaming. and the battle for players is about to beain. Never before have gamers had so many multi-play-

or caming cotions with such a

designs original multiplayer content and offers third-party games on its ARIES server, is now accessible in several new ways. Nov. Are Wyseion It and Bern FTrom Solvers that eranhical online games) will be available through CompuServe. EarthLink (direct Internet connection). GEnie and AOL. Individual publishers also

introduced online strategies at F3 Starwine Productions. the provider of the ESPN Sports Center web site.

emeiled its nected with their budge net servchildren's med or, a tree service for gamers uct. Casn.e. who have Internet access. INFINITY, CASTLE Bracty will be a tranchises of two of their most CD-BOM prodsuccessful packaged games uct which will with Ucrawa Onuse for fantasy.

adding sources close to Mindscape indicated that they will nonvide a free network server for plaving QuessMastre 5000 and later games over the

Internet.

In a similar

access link built into the Inter-

connects in

BATTLETECH: SOLARIS If you thought MUTIPLAYER BATTLETICS WAS slow and

crude, you should see the frenzied death matches in BerneTech: Squams.

yern. Riggard Entertainment has but will feature dynamic game designed Divers with an internet worlds with social structures. designed quests/campaigns, tace. One click and you're conand mini quests and missions that arise from the characterisacs of the worlds themselves.

Slightly different is the EA and Origin will expend the approach of GTE's Siege. This came on GTE's upcoming internet service will link a mid-Eplayer adventure and strategy butts and Josep' Osune for Bight game to a CD-ROM which is. simitans. These will not merely in turn, fied to a monthly be extensions of based games.

continued on page 39

OF STATE STATE OF HILLSANDON O ULTIMA high level of graphics and tastplay animated sequences from the CD as it launches to the paced action. This is due, in red fans web or even when there are dis-

CAR CORverse with others and omback on quests in a dynamic online world.

part, to the ettorts of bist-rate game publishers such as EA/Origin, Mindscape, Bizzard and Interplay to bring compelling new content on-line. Add greater accessibility to that equation with new networks like

TEN, Moath, Engage and GTE. as well as a myriad of internet Service Providers (ISPs) to help gamers reach those systems. and you have the makings of a

gaming revolution. At this year's E3 show even the old-timers had interesting news. Kesmal Corporation has been doing on line gaming longer than virtually anyone and they had several important announcements. The Virginiabased company, which both

cc

Mere are some of the hottest groducts on the market, as well as **BATTLE ISLE 2220**

The thing ristallment of the Burnus Issue serves from Blue Byte, a German extolisher, can be tun, challenging and somewhat addictive. But it can also be irrizitna, Irustoting and monotorgus. Bern a



the ones that frankly ain't so hot.

Reviews for most are coming seen. last 2220 comes on two CDs, mostly because this installment comes with over a giophyte of multimedia film and autin. The music is good, but the acting is amateurish. with some bland dialogue. The plot is band and doesn't do much for the game. More often then not. It serves only to mislead and confuse the player in concept, this term based game ofters strategic planning, tactcal-level warfare with 64 different land, air and sea units, weather effects and the obiety to manage energy, meterial and military resources throughout a campaign. In exercition, only players who are beauty into micromanagement and who are palient enough to repeatedly stog through long, drawn-out bat

ONE REALLY **FAST COW**

Gateway Pentium 200 Has The Beef

I ritel has upped the processor spead ante again, this time with a 200-MHz Pentium chip. II you recently spent a read of cash on a 133-MHz or faster Pentium, don't worry. you're not being left in the dust. Due to

an incremental speed update over its recent predecessors

That said. Gaterray 2000's new P5-2000DR is still the fastest PC we've test ed vet. And Gateway's not just depending on processor speed to self this new



the limitations of the Pentium architecture framely, that no Penfium chip talks to the motherboard any faster than 66

Blue Byte (847) 534/7950

Reader Service #301

PC CD-ROM

\$3,909 tower of power It's pecked flor continued on page 40 ...

the most parfl with top of the line compo-MHz), the 200 MHz PS only others only

neets feet will make this boar purr when ties in search of a version solution will find

TREASURE QUEST

Born a los a 2220 worth their time -- Put Miller

Smus is oftening a \$1 million prize to the tirst person who completes this puzzle, and believe me, if you can solve if, you deserve every poors: The problem is that with such a hupe prize at stake, Sinus has to make it profly damn hard for anyone to usin. In tact, they're really not giving much away at all. Your first guzzle is flauring out just how to play. The object is to search the house of the lafe pro tessor Jorethon William Faulkner following some vegue instructions left in his will. As you navigate through an extravegant mansion airting for "hot

spots" that will tripper audiologico hints or lead. you prin other rooms, you'll find cryptic clues. complicated word puzzles and cryptograms Deciphering each of these does not in itself solve the puzzle, you must keep note at any other snip pels you pick up along the way and piece them. together to form an overall conclusion. Sameolay is slow, after a few trustration hours I left no closer to the solution. However, the clearly executed

bust two months after its debut, Civilization II takes the

number one spot, knocking Wareraff III into second place after four months at the top. White Dike Nukem 3D continues to climb steadly. Parger General returns to the chart after a few month's absence and Fantasy General enters at number



16

	Be sure to send in your poll card,		
0 V	e know which games are feeding your	addetic	in this
1011	ta		Months
	Mon		On Charl
	Civilization II (Microprose)	5	2
2.	Warcraft II (Blizzard)	1	5
3,	Duke Nukem 3D (3D Realms)	7	3
4.	Steel Panther (SSI)	2	7
5.	Command & Conquer		
	AND AND A PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	3	8
3.	Wing Commander IV		
	(Origin)	4	7
7.	Heroes of Might and Magi	С	
	(New World Computing)	6	7

8. Panzer General (SSI) 9. Fantasy General (SSI) 10. MechWarrior 2 (Activsion) graphics, including video lootage of Star Bak Deep Space Alme's Terry Forrell as your spiritual guide, create a visually compelling experience Compaty may femal me back for another peck. but this challenge is really for dedicated puzzle.

corners only - C. Psrober Sirius Publishing, (602) 951 328B, PC CD-ROM Reader Service #303

VIRTUAL SHOOKER If you emoved Virture, Pool, then chances are

you'll enjoy Interplay's Virguy, Syppier, even though (or perhaps, because) the table is more torgiving then the real thing. The mechanics of cue control are very intuitive. Using the mouse and the "S" key lets you simulate the stroking movement of the cure. You can increase or decrease the

JULY 1999

n matter how wide the bus. computer games will find a way to closs it. As 3-D graphics boards. head our way sendors and the developers are discovering that

have graphics accelerators use the main memory/CPU bus itself. Intel is calling the new interface the Accelerated Grantics Port (AGP) AGP promises to allow graph-

ics accelerators to take advantage of the main memory bus' 450+ MRIsec handwidth.

and alleviate bottle. necks on the PCI bus An added advantage of this implementation is more PCI hus. bandwidth left over for

the PCI bus can actually be a other devices like hard-disk ronperformance bottleneck, When trollers, network cards, and a lifan application passes data in the lie down the road, sound cards. 3-D diceline from the CPU to a Atteuch ACP-equipment mother 3D accelerator after a scene's boards won't ship until midgeometry setup, the PCI bus can 1997, they'll allow game devel impede performance-even with goers to build more complex. its 80- to 100+ MB/sec of bendpolygon-intensive scenes into width. To remark the outbean their fittes, allowing them to Intel announced at the Windows. more accurately model real-

world screens Intel has inked a deal with Lockheed-Martin In incornorate LM's Real 3D chip on Intel motherboards in the second half of 1997. The chip will use the ASP interface, and will also deliver 2D graphics as well as distal video. The move is seen

by some as hostife toward thirdparty graphics-hardware vendors, since the LM intel solution could obviate the need for add in graphics hardwere. But the ASP specification does have provisions for an

ACP stot for aritim cards, and several prominent graphics chio makers have announced their intent to use ABP for future products

In the meantime, the PCI bus should provide plenty of bandwidth for first-generation 3D. games, and AGP will hopefully pave the way for even more compelling titles late next year. -(Jave Sahotor

Ziff-Davis Becomes #1 Game Magazine **Publisher with** Purchase of Sendai **Publishing Group**

dding seven new game mag zine fittes to its flanshin gaming publication. Concuter Runion Whete 28 Cavis Publishing has become the dominant force in nublishing many a zines shout interactive entertainment 7 D arrounced its purchase of the Sensa Publishing Group (Electronic Garryto Monthly, CuberSports, Computer Game Review, (vtelloant Gamer, PSX, Internet Linderground, and EGM2) on May 9, 1996.

Computer Garring World will become the Group Publisher of the Sendal Publications Group, white Steve Harris founder/outrisher of the Sendal Group, will become a Z.D. vice-president and focus on electronic publishing. Dale Strang, former associare publisher of PC Games and publisher of Amon World and Desktop Video magazines, is the new publisher of Corrovery Garring World. As of press time, Z-D announced that it would no longer be publishing Computer Game Review and that subscriptions and ad pages would be

Jon Lane, former publisher of

Hardware Engineering

Conference (WinHEC) a plan to



force with which you hit the ball through your mause movement. Other last combinations. allow you to increase the panie of the cue, or move the tip to apply left and right english as well as top soin and backgrin to control rebounds, Interplay guarantees that Virruin Syconta will improve your real game, and we don't doubt if The tracking gotion shows.

the exact path the cus and target balls will take upon impact, greatly assisting those of us who failed geometry class. The pame sports modern play and allows two hot seat players. Although system requirements advise only a single speed CD ROM drive, my double-speed drive stuffered on the helpful FMV butorists _/ Anteron Interplax (714) 553 6665

PC CO BOM Reader Service #302

BATTLEGROUND: WATERLOO

In between the assaults at Getheburn and Shilloh, the General Staff at Talonsoft have decreed that our next wangement objective. shall be none other than Waterloo, arguably the most famous battle in histo-

rolled into Computer Summy World.

ry. The interface remains familiar, and the graph

ics are so polished that even the toughest drill Setgeant could scarcely find fault. The march of proud French infantry lowerd La Have Sainte. the bitter struggle for the walled chargos of Houpoment, massad musket fire evens you to bayonel charges-it's all here, in a luscious set fing that contrasts sharply with the determined



There is a place where mercy is not welcome.





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1995 GAME OF THE YEAR - Strategy Plus BEST STRATEGY GAME - PC Gamer

rou must on

Surte Resider Service #18



DIRRID Gamers who nurchase Blizzard's hot new RPG can clobber each other online, all they want, for free.

expected to be in the vern of such combat and superhern teams as WMXC A T.S., Wetworks, Town 7 and Stormunitoh Similar to Ucoss Druss are

the multiplayer MUO games. These have, by their noture, daystoped into ordine communities. One such game is Archetype interactive's Mirrowe 59 (described in this issue's "Hands On" portion at our Game Track section). Recently acquired by 300. Archetype hasn't fully fleshed out its busy-

ness model

Game Packagers

A new type of service is the game aggregator or packager. Although some of these serwess will develop their own names, their early business nion. is to gether topother a critical mass of pre-existing products and place them on a system. where gamers can find ready mornents for familiar bosed games. The newest in the field is Interplay's ENGAGE, an online caming service which will allow access through ADL. Concentric, Prodicy and Time-Warner, Hoping to bill itself as the "HBO of online coming." ENGAGE has deals with Caesar's Palace, MCA, the Improv cornedy clubs, Mixes,

includes exclusives on multiplane: Junysec Peac II. Venw Pool, Castles N. SinCity 2000 and Wiscourt II, among others Month plans to allow access through Internet Service Providers (ISPx) No MCI, Netron, PSINet and LUNer's Alternet in order to allow gamers to play multiplayer

extensions of packgood games

Bitzzard, and of course interestsy

to provide content. This

(New Whole Computing's Oversiones just

released with that carobidal. as well as their own designs Since SecaSoft recently invested heavily in Mosti ver'll also expect to see a large churk of action games appearing on the web through this

service. One feature Moeth is promoting from the first is their resttime speech capability The Total Entertainment Network (TEM allows you to use your for games which are, primarily, multi-player extensions of packaged games, However, TEN has

own ISP or access them directly an incredible lineup. They have an exclusive with 30 Realms for several years (Door Nazzy 30). BLOOD, SHADON WARRIORS) and already have Outr and Rizzant's original Wascasst up and running. Eventually, you'll be able. to fly Falcon 4 and play Magic: THE GATHERING OVER TEN.



raderie and community, many players of Archetype's Mexician 59 have formed their own secret guilds.

Judge and Jury Frankly, the jury is still out as to which approach to online gaming will win out. Our suspition is that the overall mass of gamers will spot into predominantly two croups: 1) those who are looking for more competition and 2) those who are looking for more community. We suspect that the former will gravitate toward the game packagers and the latter will be attracted to the came makers. We also suspect that there will always be room for both. Of course, gamer dollars will be the ultimate artifler. - J. Anderson and J. Wilson

charges of Bonaperle's best and the desperate detense of the Anglo-Albed torces under Weltrigton, Better Al, improved leader modeling. a richer factical feet, and of course, cavelry charges-what more could you want? Old Boney himself would be proud to lead this tire name. into bettle.-- T Coleman TalonSoft, Inc. (410) 933-9191.

DEATHKINGS OF THE DARK CITADEL Developers to the Dank Craces is belied as an

Reader Service #304

expansion pack for Howis. These days where new 30 hrst-person perspective games seem to across overy other day each with new leatures, weaports, and movement directions. I would expect more from



an expansion pack than just new maps Unfortunately, that is all Districtions has to often Don't get me wrong-fre new episode and deathmatch levels on this click are very well gone. If you think Hoxev is the best game on the marlot, then you will won! to own Dezistance. If how the same oreal graphics, the same gene feeling, the same spoolsy sound effects, and the same grussome creatures trying to pulverize you as life original. The only problem is that the "same ress" completely runs the excitement of having

new worlds to conquer. Shortly after starting. DEATHORDS, I found my initial excitement was opine and a sense of bean these above that had taken over. Had this episode contained new enemiles, weapons, and characters to choose from it would have been a delight. Write changing most of the elements of Hoxen would take a for of development time (which could be used on other projects), one has to wonder who if you aren't going to do the job night, you would were to do it at all -G. Forture id Software, (214) 613 3589. PC CD-BDM

Rearier Senare #207

CYBERIA 2 Like a bad moment from the movie Groundhoo. Day Zak's back in this secuel that promises more of the same. Exactly,



OLD SOLDIERS NEVER DIE, THEY JUST TURN INTO

BLOODTHIRST

MUTANT ZOMBIE

GT Interactive Software

Carte respective or

You blasted your way . through an onslaught of undead marines and hell-spawned hordes in Doom. Ultimate Doom and Doom II. Now you can HE retire, right? Wrong. Seems flesh-eating mutants have the mortality rate of a cockrosch and are alive and kicking in Final Doom - the last of the KI legendary Doom products. It's two new 32-level episodes complete with new stories (Evilution & The Plutonia Experiment), new frighteningly realistic graphics and new pulsepounding music. It's time to finish what you started.

Circle Reader Service #242

games.
Along with the 200-Mris
Along with the 200-Mris
Ferrium chip, the PS-200CDR
also uses the newest intel
Persham support chips and
SDRAM (Synchronous
Dynamic RAM) memory chips;
the memory is in DIMM pack
agis, so you can expand one
DIMM at a time, residued or in
pairs as is required with
SIMMs Swall sales that 519K of

synchronous cache memory

All this adds up to give the system processing performance about 20 percent faster than our baseline Zephyr Onyx 166 MHz system, but only about 10 procent faster than the bligging falcon Morthwest P166.

The peripheral list is what makes the P5 200CDR stand out. The most conjunit addition is a XX CD-ROM ender(ZX writer that can be used to create your own CD-ROMs. Whether you want to create a quickmatall tackles of your hard. CDs, or get that 400MB download collection of your hard disk, you'll find the CD-PDM wither a valuable tool. Di course, 4X speed is passel as far as games are conceined, so Gateesy has also included a conventional Weames 8X CD-PDM.

drive, create your own audio

FOM.
Although Wearnes isn't eachly a household mane, eachly a household mane, steeny hism's skimped on the other components. Video is provided by a speedy 2MB anders MGA Millerum Card, known for providing top north windows and DOS printimatics. Audio is provided by an Ensienia Soundstage Nos provided by an Ensienia Soundstage Nos wewshife audio (and sounds petity oped considering) in his but

1MB of RDM).

Witapping up the package is a 17-inch Vivitron montor, 104-lety lety-bond, and room-shaking After Lansing ACS 400 seesler and subvector pack-

age. It's game-ready with a Graws Gamepad, but you'll likely want to replace that with a real loyslick

real invetick The pre-production und I evaluated was very immossive tor the most part. Unfortunately, driver problems kept the Wearnes CD-ROM from working under DOS, and the CD-R wasn't ready in time for the request so our tests were limited to Win 95. Performance there was exemplary, though, even when running DOS games under Win 95. The only other olitch was a rumey loystick reading-lifely the SoundScape card not liking the system's blazing seeed. But considering the amount of stuff you're getting here for \$3,999. another \$25 for a dedicated game card doesn't seem unreasoneble Assuming the CD-RDM driver emblerns are worked out before the machine stres, this looks like a new contender for the Ultimate Game Rig 6fle -Densy Allon

like its predecessor, Overrer, 2 requires you to shoot through a series of rail-noing actionarcade sequences to reach the next "milestone." Agein, there is no Save function. As in the movie and Cossiv, if you tall, the sequence begins again; each time stirting with the title screen to drive home that rederative feeling. The game play is limited to aiming and firing the gue, and (in the brief moments when you actually control Zaló deciding which direction to turn. If you choose the wrong path, Zak's immediately kiffed, and you must start the sequence again-yes, back to the title screen. Through the mundane process of that and error, you eventually make the night decision or learn the exact. finite sequence and advance to the next milestone—not a very reversing experience. The graphics and arrination are once again that and beautist, but that clicin! make a good game the lists time around — Analysison Xatox Emicristament, (800) 531-2343; PC CDPDM Paster Service #108

CHAOS OVERLORDS Gang verfare comes home to your PC in New World Computing's latest strategy little. Clycos

Documents. The story is single in the Jahran, but and other disentagenties, level in go their sindre groups as A son or of the gray plotting, but the bit the late or a standrage when the dast selbes. Show we provised the grain in February plants (Dr. GOW 1915), more much this charged. The immirries a skill contribugional very disentation becomes a skill contribution and the manual to find on how by play, but were the manual close of countribution of more than the story of the story of the story of the story of plays are such countribution of the story of their story such comment of the story of their story such countribution of the story of their story such comment of their story such such comment of their story such comment of their st

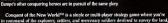


inferious, will suit of it may against. In series, concolinations be all the improdest of a state as specifies such a contract, both processor and specifies such a contract, both processor and past set that fun, hind core games and those elemented with the latest of playing a proprior may feel that will be improved in the production, but must write that the properties and then through the processor and the the

PC CD-ROM and Mac Reader Service #309

Experience nation building at its best.





search of the New World. But be warned?

to build new colonies, and to protect your emerging nation. As you search for new rivers and mountains, you'll come across other colonies and encounter friendly and hostile native tribes. Your growing nation is constantly at the mercy of world events and the endless threat of surprise attacks.

Only through a perfect balance of diplomacy, exploration, trade and warfare can you build the ultimate nation, declare independence, and experience the true power of Conquest.



Colonies come to life in stunning SVGA graphics and exciting 3D animations

. Combat explodes with the echoing blasts of infantry, cavalry & cannons













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SIGHTINGS

tee's an early look at the space invesiers that will be vying for away, and they aren't even playable yet, but at least you can see what they look like, and get an idea what their intentions are.

in this sturning sequel to Dark Forces, LucasArts has pulled out all the stops to create a truly avesome 3D experience.

tucesArts showed us a pre-alpha version of the game on a P166 equipped with a 3D graphics boad, and the visuals were incredible. The anticomment and characters.

rorment and characters are constructed complete by of 3D, testure mapped potygons, and the game takes advantage of 3D boards to ethinized japped lines or pite librad graphics at close range. The 3D boards also

me and because and enable dynamic light-sourcing which dominates durkaned condition with least fine. Even the unenhanced version is graphically appearing, with visuals comparable to Does Nasaw 3D. Apart from the beauthal graphics, Join Kware should bring more enemies to the table, including an instruction. Vicilize, so we'll have more to shoot at thun Storm Troopers, Jeor Kivicer continues the story of Kyle Kartan, the intercensify from Devel Foodes, as he trains to become a Jedi. As he progresses in training, new powers of the Foode will be avoidable to him, including the



ability to wield a light saber in addition to the new wappons, new monotons, booth salting graphitis and a buil 3D environment. Jier Knoton is multi-player capabite, over network, modern or direct tink. And sist but not least, you will auchorily so able to sake your parties. Will wonders never cause?—E. Chiu.

F-22 Lightning II

in the coming gist of flight smustions based on the Lockhead's new F-22 fighter. NowLogic's looks to be a surprise standout. Terrain that looks even better then FF2000's is complemented by the best looking texture magned district.

certury jet's suphisticated prior and to Peop it surple, alther then dumbing down the sim. Lock for a series of cannot missions here, as well as a US New Forms-ship quick mission editor. The stand-out leature, through, may be the notwork play. If you're the ulter-serious sim towe play weers a.

green bag light suit to net games, you'll probably want to not games, you'll probably want to look deswhere. In the alpha version we liev, being killed in a net game would only disable your arcraft's conhols for a lew seconds, risher then sending you back to the runway for a long light back to the action. Some one for the fun factor, at the expense of a little behievablish. Whitien of unwith other

humans Iving F-22s (and who

have smart F-15 wingmen),

while smultaneously tending of computer controlled MIG-23s and Su-27s, was a blast. Twoplayer copperative missions are

and Su-27s, was a cost mo player cooperative missions a siso planned.

We're anacous to thy this again, but you'll have to wait

lly this agent, but you'll have to wait until the fourth quarter of the year to find it ready for takeotf - D. Alkier

Diablo

drought in PC RPGs will soon be quenched by a Bizzard ... or sather, an RPG from Bizzard Desco is a rote playing game with a helty accordenent. You are a ione hero who begins play in a dungeon, collecting terms, limiting sceles and gaining open-

rience while reaming through dark undead-intested corridors. In Blizzard's tribute to the classac dunction romas like Poque. several key teatures separate this RPG from others in the genre are: its isometric look. similar to Crusicer's interface: nraphies that look like beautiful prerendered artwork; and multiplayer canability. While RPGs. have previously been strictly single player. Dvar.o lets you explore its dungeons with up to three others. For those who lower old table-ton RPRs where interaction with other players was key Dura o looks from it. could be the RPG that finally captures the true feel of those dassic D&D adventures. CGW was able to see the first lew levnls of Dusio, crammed with Irresture chests and monsters. and ever with all the complicated elements and lush graphics. the action was still smooth and

thad, With age castring

and intuitive intertace (complete

with an on screen information

bar that gives immediate data

mean of vitilds emocless enti-

dungeons with Iriends, Divero

on all items and monsters), and



yet seen in a PC sim.

F-22 Lichment II is geared at both beginners and experienced sim pilots, Life EF2000, NovaLogic grans to use this 21st.

looks like it could be the hit. APG to revive this meak genre.-E. Chin

Into The Shadows

NO THE SHOOMS is one of the most impressive new 3D filles. wending its vey to market, and it doesn't require a 3D graphic annelerator Roasting a frue 3D engine with impressive light source ion and birth ies graphics, it's a remarkable advancement over previous dunation ramps. The D&D-style ariventure/action game is set in a

to THE Dask Although some of the gamegley involves searching for levs and special items, the main focus is action large, motion captured characters hack enemies in a venety of thousis swinus and crushing death blows. Not only are the movements. fluid and realistic, but special doubling fechniques create the illusion that the polysonal characters are more detailed than they really are The game's graphics engine has



three years, and t looks superb. There's only one problem: there isn't a rices of blood anywhere. Perhans it will be added later.

coment for

but our under with shadows and light, where the standing is that Scaverger doesn't have fine stomach for it. Descrip this, player balties uply derivers with a veriety of medieval weapons the game looks incredible, it's very Dynamic parcing has been used to test, and it will reportedly support up deepen the sense of immersion, to to eight players on a net. Keep your even on this one -K Aroun

ETRANAL AT KNOWDOR fans who fell befraved by Sierra's decision to abandon the property can finally look forward to a sequel. 7th Level, designers of MONTY PYTHON'S COMPLETE WASTE OF TIME and Mostly Python & the Holy Gaza, is working on the next adventure in Raymond E. Felst's world of Mickemia.

As you'd expect, the graphic quality of the sequel lar surpasses that of BETERN E Kearpon, with

grounds and real-time 2D and 30 animation The designers are also working on

what they describe as a "tectically-com- In I plex," third-person, furn-based combat system, although

we haven't been able to see its implementation yet This playable scene depicting a prefly shopkeeper is an example of the game's graphic detail. Her shop, the Golden Grimore, offers rare mystical herbs, potions and books to aid players in their quest to recover the Tear of the Gods. Players will have to solve the mysferies of the Tear's disappearance to finish the game, but-file many of Krondor's inhabitants-she conceals deeper mofivetions. Felst is reportedly pleased with the character. development in the game, and if that's indeed the case, his tars probably will be too.-K. Brown

beller effect than that seen in Aures HANDS ON

hese are the products in development we've actually spent some time with. They represent some of the most interesting

was a perfect

pufer role playing gotre was partnering

with the computer publisher of one of

Germany's favorite role playing games-

titles in the Pipeline, and they are complete enough to actually tell how they're going to play. Most should be released soon,

Shadows Over Riva



a half-elf and an orc. By eminring a twoand-a-half dimensional world (if usually acts the frue 3D, but you occasionally get burg. up on texture mans where the collision detection doesn't guite work correctly). the party must stop

seems to be inciting the Orc population.

toward violence. Some claim that Holberker.

is the product of a dark mage who crossed

Holberker in order to stop the ore incursings and Millions Sir-Tech Software. (315) 393-1525 PC CD-ROM

Das Schwarze Augo (The Black Fuel Str-Tech has been regularly publishing the series of German role-playing games as the Remais or Answer series in the U.S. Swoons Over Rea is the third instiffment in this series. Playing the German version of the demo, me've discovered that the game system is still infact while the graphics and sound effects have unproved. This time, an Ultimate Bad Guy named Holberker.

HANDS ON

Grand Prix II

e've been nettinn a steady feed ingly imposing Papyrus racing sims since the release of the Geoff Crammond-designed World Cricuit nearly four years

frustrating for journeymen, and shill driveable with a loystick, GP If newertheless is a fountier experience than Works Circuit. with an accent on driver coasisfency and wheelspin control. Tipes break away and stide



furns before suddenly grabbing.

(notate drivers who "crack" and

choose to be good or evil, with

different consequences for each

Your actions affect the commu-

and opponents really seem to

interact with you. This may

ago, but race sim fans will soon be served an appetizing change of fare. Crammond and his team have been cooking up a Formula 1 racing brew in Gasso Perc II

soin off the track when you've been ridges their mar ming, and Permissional of its revered backmarkers who politely let you medecessor but with a refined by! The beta version isn'f rife. driving model and ridiculously with blow-apart machinery or good All for more authoritis figsmoke, but does feature speedvor, GP II is a sure-fire minner lifting sand frace, ourbs that'll Not so difficult as to become

collisions that faunch vehicles slowerd. (Buyer benare: This effect offen had me filmlan. above the track for half a minute or so, and needs to be toned way down before release)

A muffitude of actions range tom uttra-edvanced control device preferences to in depth car setup elements such as spring sfiftness and anti-coll bar tension. It's a thorough and complete package, with an exquisite SVGA mode that's hellaciously tast at low detail (a satisfactory VGA alternative), real drivers and feams, and many of the other-

ished Worko Circuit elements (monitoring from the other out/s cocket, instantly posted fast taps, one-joystick multi-player mode, flag-waving Europorkers) left intact. With some late-betatwestes. Green Park II should be one scorching hat product Insteed.--Souton Goble

World Circuit Racing/ MicroProse (800) 695 4263 PC CD-ROM

momentarily elevate tires, and ▶Meridian 59 larger "mal" would "fou con

nity: therefore.

his 3D adventure came by Archetero Interactive ourrently has around 12,000 and players worldwide You determine your character's. appearance, expressions, attributes, and madical skills. And, as you exercise your talents, they improve and mature. Hunt for Insasures, floht monsters cast snells and join secret outds, all while explor-

side and the Underworld

every visit to this co-line environment promises to be a differing the Great Halls, the country ent experience. In the Inje sense of community Guilds of player cuests that help intege the new characters have emerged; some which profect new rilayers, some which savagety pillage and plunder, andsfit others which will safequard your freasures. In constant development and

growth. Mirrows 59 currently consists of five cities separated by forests, plains, rivers, and mountains. The text-based interface is straightforward and easy to learn. However, you'll need at least a 14.4 modern. and a SUP/PPP toternet connection. Archetype and 3DQ nian to release the final version. in July of 96.--J. Anderson Archehole Interactive, (510) R49 4045

and Internet Cospacilles

PIPELINE

Q Titheca ge at Bittes S

nerican Civil War Interactive Mario etraval in Antara Sena Callahan's Crosstine Saloan Lagero

Dagnertall Befresta rk Earth Mintsox Hable Efreat

Fik Moon Murder Act Guardians of Oestiny \\\ cot Pago Baseball Pro Sena ory of the World section in

fible Shrinking Man Cyterfream In The Shadows Source MAR III MARGEN Sovies

ladden Foetball 97 FA St Last Biltriries S Leisure Suit Larry 7 Se lagic of Xanth tereso er of Orlea 2: Astares /.

ddian 50 Auch throni oLozguo Basebali 66 1 Myst II Byoderband IFL Legends Acres ne Must Fall Feld

Over the Beich Avalor Hi He Tide Accress ax Importa II Stazzard obert F. Lon Sirca

Shadaw Warrier 3D Reservational Shadows Dree Rive Santon SimSail Moo coal Steem Ond/Accost Star Flost Academy Interpla Star Concest SSI dar Trek: Generations Mi icesos MicroPess Syndicato Wars FA

SO GIE Entertationers b Radders Damarioffidas it Pursuil Hashin Intéracti

Windows 95/NT CD-ROW Xenenhane Amaro Frontier





Get Ready To RUMBLE

Id Signs A Death Warrant For 2D Gaming, 486s, And Everybody Who Enters Their 3D Nightmare

By V. Long

escribing Quyer is the talking about sex-it. must be experienced to be fully appreciated Pictures gale in comparison, because Quive is about being them, not observing from a distance. Action gamers around the world have done just that by downloading the Quise DeathMatch multiplayer fest (Otest). But Otest is not Quive. The unfinished version of Quive we played was a yast improvement over Otest. Many gamers expect Quiviz -- an immersive and visceral first-person shooter using true 3D polypon-based modelling, fluidly rendered in real-time—to usher in a new era of naming. When id acreed to show us the nearly completed game, I didn't have to check my notes. CGW Technical Editor Dave Salvator and It letted to Mesquite. Texas, and met with renowned talents John Carmack, John Romero, Michael Abrash, Sandy Peterson, and the rest of the id crew Between being blown to bits by howing members of the Texan assassins in DeathMarch contests, we saw the technology and design that I am convinced is the vanguard of a terrifying new level of immersive interactivity.

PLASE TO MOT FEED THE MONSTEES

The selectioning committee that delived size this the much larger, more compare, and beautifully could not been send to what is glocked more compared to the send to what is glocked. All agreeded selecting enough is made as to place particles research as it will be a selection of the send of the se

"You need to aim."

Another controversial change from id's previous spiditerlests is that Claves will not have a map teature. No matter how much



ER OF GUTS An On a reals from the bush which parties ketified increster into a shower of objets arryone beas or pleads, the design fearn believes that an automain

defracts from the suspense of facing horrors around every corner. The interface has also changed some from the Otest version. It now includes an ammo count that provides more details than life one in Doow, and has expanded on Doow's curning commentary at the top of the screen. Besides letting you when you've stumbled on a secret or people, you'll also find your death unceremoniously ridiculad with curs like "VLong tries to gut the gin back in" or "Fragula rides Borness's recket "

in addition, menu pedions will let you perform several basic functions like start a new game, save or load a game, configure controls. etc. But if you liked the cull down command line in Otest, rest assured. t will remain in Quyer. Some of the commands have been changed or removed, though, so don't expect your taxonte keys or console commends to work the same in the release version.

And for those of you who routinely escape annihilation by cheating, you'd better learn to fight; because you won't have hollery cheats like SuperJump to save your coverdly skin. American McGee, a level designer as well as it's acknowledged DeathMatch king, remarked sternly "People should not be using SuperJump. It's out."

MY, WHAT A LOVELY PLACE YOU HAVE HERE We noticed an abundance of rich new textures, such as started

class, wood panels, and marble like surfaces. It you didn't like the feeble good shower explosions in Quest, you'll be happy to know there are now full-fledged fireball explosions with particles biflowing outward Artist Adrian Cormack showed me that the tireballs are actually six frames of bitmagged animation. It's untortunate that id had to resort to 2D art for exclosions and other graphics like

> forches, but programmer Michael Abrash explained that even modeling a candle flame in real-time 3D brings a Pentium to its knees. Regardless of how they're generated, I still like

tie artwork laeds the pyrotechnical proclivities deep in everyone's soul. Some weapons are undergoing facelitts as well as functional

stroking. For example, the double-barrefled shotour sports pas and has an improved shot pattern. The grenade fauncher's graphics are in transition, while the rocket buncher's rate of tire and blast radius are being increased for maximum impact.

One thing remained the same-there's no story line, besides the eternal struggle between good (you) and the hordes of unreferring exit. Jay Wilbur, id's "biz quy," elaborated, "it's thinner than soap film at this point...,we'll thicken it later. I look at it this way: A bad game with a great story is a bad game. A great game with a bad story is still a great game *



unifor Dook a post-mortem must. The risk must, upray in stratus the ruy's shifts are on target with in Dig. In this beolepiton

LEVELS TO EXPLORE AND ESCAPE

Story or not, what I remember most is the overwhelming sense of actually being there-wading through vaulted subterranean comidors blooded in waist-deep water, gawking at magnificent cathedral-like chambers oputently filled with stained class, and running like hell away from the hordes of Satan's minions bent on having me for dinner Game programmer Mike Abrash saw my hair standing on end as I survived Sandy Petersan's parifous SMOTTE level, and dryly remarked, "There's no doubt you feel that the levels are inhabited."

There were three modes of difficulty lease. intermediate, and hard). The difficulty modes. affect the number of monsters, and Hard mode alters the levels physically. John Carmack is working on adding an Ultra-Hard mode that will make the monthe explosion graphics—it's amazing how a linsters taster and even stronger.

(cute it not hypes) 10 wist-on Joint Carrock

ID WZ-KID JOHN CASHACK

Uses isn't firished as of this writing, but that dich't stop
John Carmack from taking about his hopes for the
senut. He peckind: "The immediate plan is to move

societ, he operand, "The immediate plan is to move the current tools to the NT pathm, and to develop not technology and seeks that will gradually be introduced in developing and refining Gases III. My goal is to make content ovarion easier for the rest of the id stars.

The use of Direct Oxion rather than patettes will be one fundamen

ul changs for the future. Direct Celor gives programmen and urbits most subject to the future of the control o

**Like Door, Dove is very good or generality into or exvicents on charge of an other of the cities of the will are verified. The titler, live is copied at the interface introduces the centrality relation colorov relates on control and the colorov relates of the colorov relat

The levels clearly reflected the poscoratios of field designers For example, Tim Walfe, a Paulos of the Fool And for in it known for ination. Density by feets—feet but stope by Fool anals, spikes that impair form above, and devices that result in quick decapitation. In general, MoGel designs fire Mattel levels, Tim Wittlis does the Madeival, Pelassen does a Fatasor is subset of Madeival, Pelassen does a Fatasor is subset of Madeival.

and some Medinal.

To sop you've wondowng, the answer is, No, the Quiste Either will not be reflessed. Even if it were, Een appring level-buildiers have a Next Step box needed to run it. But Jay Wiltur encourages integrid programmers in create their own Quive, editions and customin levels. As with You've 30 and Dozin, of currently plans to refesse the sports.

LET'S MEET OUR CONTESTANTS

As in Doow, you'll encounter legions of solders turned evil. The gramy Grunt trees a shetgur, but is dwarfed by the befier Eliforcer into wields a licear fusition. Extremelars often accompany these bad boys, As in Woursesses 30,1 left a fittle guilty putting these sharing carriers to steep despite their propensity to

grain on my leg. These three loss exist only on the Military levels. The princheshed Franci is much more dangerous and plassed libra is equally mission? Deann between from Docu. Its system 6 the first and immense bounding leap help make shart work of its victims. The balls healthed Ogre, brandships a charisses and bothing generates, may not more as suitable but all for diserved control transferred.



ZZAPPI B. ser, the Shimble a behalfed in a fullence



The Shambler lumbers along life the Abominable Snowman, and smashes its victims with gaspartuan daws. Beyond spitting distance, it hants lightering from its brilly. Aboid if or pood some Fiends into attacking it for you. On the other hand, "Drintles can only be entermentable tide in east with oreacles, crossess

Zombies can only be permanently laid to east with generales, rossess, or the see Despite its rigor-morts clumatiness, the Zombie aceils at tilinging prices or decaying feelin and can make your file miseastate. Given the chance, the metal-clad Krajath and Death Kringht will stash your stask-about. The burlet of beath Kringht can hour "marge missited" that look like a flurry of spites with green tracess. The pole lake-

taing Scrag has the same magic attack.

Don't flink that jumping into water offers any measure of salety, either Spending too much time tuly submerged means drowning.

"Bard" vater will retryou of health. Some pools harbor swarms of vocacious Rottein that do more than netoria. As always, the idiguys sept a terr moreals from plan sight. Persistent pooling around yielded Internation that they're still working on the Spawn, which bounces around and body stams you into sub-

on an appear, where process around an a loop salarly you had so seem make in mission, its big brother, engineringly reamed Yomihus, chags along and apats rumthal chulles at you. The Salatush and Shade magurath are the shareware and registered bosses, respectively; at the time, both were soft in the embryonic stages of development.

The Frying Dragon that majestically graced the screenshots id released last year won't be included ... at least, not in Duwer I. Look for it in Duver II.

BIGGER TOYS FOR BAODER BOYS

Feeding gamers' raventous opposites for playthings that go bodg. Coxet offers an arrested of geodies. Doow-tens will feel right at home with the shittgun and double burreless shittgun. These boomsticks work beet for sweeping Roffein, Rothwellers, and Grunts out of your celfs.

As in Doox, acquining a rocket launcher is a heat. This time, though, rockets loave a blazing ochoust trait before vegorizing beasties into showes of gitters. The dynamic lighting ethets, which John Carmack coded in an hour as a bet, make notkets a jay to the down derivered comprises invoke about selnot from on the Sopera. Thus me

Among the weapons unique to Quart is the greatest transfer, within uses the same manua is the rootest uniform. You loss the orinance on a militariety short parabotic trajectory, and it bounces around better if finally stags fells. All traceless are the minitight and used midgray harding companies to broang down at Series or DeathMathan about says under a formed of competer's felds. World find the amont often about in bouse marked with the first finish that loss (in Quarties) or which, Min's feet Rezor is coming all of Quarts's sound effects. As for minits from a feet or position and with the finish of the and minits from a feet or position of the competence o

The BFG of Quive ineapons is the lightning gun. Amped by battery power, this one sends a searing white speak as lat as you can see until 1,4 thises a solid object. Monsters and DeathAlatch opponents are not considered solid objects, no matter how many get toasted along the law.

Despite the premature coverage you may have seen elsewhere,



KING-SIZED DUGLIGHT The lightning gain pool of burnering with the series BFG of Quee. Its bot burne flybogh in Jythern with it bits series object, but it won't list long without a rectwork.



there in oharmer in Duve, princip, det over it. Instead, you get an are when you are out of sminn. Diestholdsch opganette will see your chizacter sing an empty guin over your shoulder and whip out the ase for a metter Don't seer at this premitive implement, it surposed and many traveloped on it gory or two with the are curring your improving us every Destholdsch. Both John Carmack and Micfalle are man fail pages and accombination parties or Count Diminer. Ampfilter or both off the premitive of the Diminer. Ampfilter or both off the premitive distributions of the product of the product with the accombination of the product of the

QUANTUM LEAP FOR MULTIPLAYER GAMING

Toys this destructive are immensely more fun when minhally indicted on floorinded buildies. Whether you're in DeathMatch or 'Beam DeathMatch, it's strangely satisfying to watch your playmate's 3D-rendered head the clove the hall after believe decembrates with high calible:

VEAK PREVIEW . OUAKE

projectives, and it teets even better if you pulled the tripger. Anguished screams add fremendously to the experience, and offer reassurance that you've made your point, both in combat and coop mode Olest's dynamic entry leature for network games (players can join

network fran-fests, whenever they wish without focume everyone to restart the session) was nice, but Quive will vasily enlarge its reach by adding the ability to simultaneously connect players via serial, IPX, and TCPAP. So you'll be able to dial into a network game where other players are connected over the LAN and the Internet. John Cash, Id's "networking guy," is working leverishly to include these features in the first release, and plans to allow multiple moderns and a "spectator" mode later.

Quixe will support the Beame & Whiteside TCP/IP stack, and possibly a few others. Id plans to do a Win95 port about a month after the OQS version ships, and this should resolve TCP/IP issues for many

Online gaming services New Morth, DWANGO, TEN, and Catabull are under consideration, but "nothing is set in concrete," However & appears Duver will offer enough to keep many pamers honoy until something firmer develops.

Ovoke Hits the Hard Stuff

come engines like Quiva's can dazzia, even without d 3D hardware. But to bring the next generation engin ion, that's oping to take new metal, id's John Carmack icts the next leap to occur "in about 1 to 2 years from no motogy will may hazely on handware-group use by then, all systems will have it." on's Verité chio is id's current point of reference. They're sidering the S3 VIRGE chip because of its proigh according to Carmack, its perf standards. The 3dtx chip is also a strong they're concerned it may only carner a fi But it ean't waiting around to take acks dy, they've got the Curve engine runn taking advantage of Verité's bilinear into

es smooth frame rates at its native 320 x 200 frame size will tware. But using the Rend ition chip, the re 30 fcs at larger frame sizes along with cleaner incliviquality as well essing a driver spec to 30 hardware vendors who want to Quive in ODS. But Quive will more likely get to 30 hard-ficrosoft's Grect30 API when id ships a Windows 95 part ly after the QQS version heads out the door Quest hits the streets, your Pentium rig will move the

just fine But the coming 30 hard per and add panache to the overall effect. Curre lerates the OOS version of Quive but other pl likely jump into the game. We've seen the Rendi

in, and the difference is protty palpable. As other has: versions appear we'll have at 'em and let you know if y he what we see .- Dave Salvator & V. Long



and usually mulare only of two things, (1) you no vue, or (2) your tored with if

DO THE MATH!

According to John Carmack, a realistic minimum system for comfortably running Quezz at debuilt settings would be a Profium 60 with 8 MB of RAM. He added that almost any video card is adequate, since Quive can use as little as 256 KB of graphics memory. "While you can play Quive on a 486 (just as some people play Qoom on 386s), it won't be very fun" and may require decreasing the screen size and turning off the sound. Quov: is very math-intensive, and it squeezes every last drop out of the Pentium's Noeting point unit.

"WHEN IT'S READY"

As you're reading this, it's likely that Quyoz version 0.9 is done and downloadsble from rumovous worldunds internet sites. After a few weeks, id will mint version 1.0 to CO, which will then be sold via retailers. The CQ sharevere version (7 levels) will include the encrypted registered version-so unlocking the extra levels and goodles will only be a phone call and credit card authorization away. Evil's templations

oummeling CGW stallers in Duser DeathMalches %



For tips and techniques on ting up multiplayer Quas, visit the CGW Web site at www.zdnet.com/ozmino

keep getting greater. V Long is the Technical Editor for Computer Life Magazine. He is an expert in explosives and home-grown projectile weapons, and enjoys

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3D Graphics: Realism and Reality on the Hardware Frontier

by Loyd Case and Dave Salvator

here's a possibly apocryphal story about a game developer who was showing his mother his latest flight simulation creation. This was a few years and, when a fast 386 was a performance bot-md. Back then, a sim like Rucos. 3.0 used about 20 triangles to approximate the shape of an entire let fighter. Try as she might. the developer's mother couldn't see the game-all she saw were random geometric shapes changing willy-nilly on the computer screen. Face it computer name prophics is all about optical flusions where game developers try to convincingly simulate realty on a flat PC monifor That come designers can take us into a virtual world and make us forget our real one for even lonet periods is testament to their creative shifties. One key element of creating the illusion is 3D graphics. For decades. 3D eraphics has been something of a boly grait in the computer industry. Even a scart few years ago, dedicated 30 hardware cost tens of thousands of dollars. Soon, the cost of hardware to generate faller 3D will be in the hundreds of dollars-and the low hundreds, at that. On top of that, 3D graphics comes with a whole new set of largon

to beem due, it computes didn't how enough accure termindrog nove). But well acody is 30 pariphics, and with all it bring to the party of gamers? Will call through the lapse and splity some English to the lectronoppet that decorpts to new features 50 behardore without an implementing. Well also take a look at a few new pieces of hardwes, well of them promisting in one estepant or anothers. Since most of the wellwas sow in press time weren't yet ready for reseau, we can't nearly pass here supposed to be can give so can see and what the pass's them supposed to the can give you cannot be or what to expense.

"BUT IT LOOKS 3D TO ME" Let's look at what 3D iso't for a moment. When gamers think of 3D

genes, they does their of Doors, Guests when Doors and 3D. Doors does a very good job of Indising the gener for the Indising they gene if on a 3D enationment, but they only a rent? The mornders are fall graphics.—Elimon, White try ourse join one site of a minorate fine Doors engine singly replaces one fine floatine with another. Each orestime as flower loss aging the same and their another Each orestime and Doors have aging the same and their another Each orestime and Doors have aging them and their another age and downs. A gatter file Censelon and Contacts and 3D, effect All the file buildings in Censelon and Contacts and 3D, white the central properties—In-



other ends, they're just fair pictures. How you may be aximg yourself. These like Duser and Duse Heatra 20 look great may 20 graphics load, so why did need one of sinese 30 desis? Well, 30 bends do bring near tenanes to the less fresh refer improve overall integer qualify—mobilizing fairne state—but more to the point, a 30 bend les an application of those directionary work from the CPU, lessing more ordes the for commander. All and so or consists here for greating. All and so or like the point is all to the consists the for commander. All and so or the CPU, lessing more ordes the for commander. All and so or the commander.

In a true 30 environment, viewing an object from any angle is possible since the game engine creates and manipulates 30 objects on the fig. and really works in three dimensions: x, y and z. There are also real calculations of depth occurring in a 30 environment, Animation should occur in real-time and be capable of realistic motion.

Uniformitating generating 30 graphics an a neithern game contemment in a house companional proteins. Decoration at mobile scene, you are standing beside in cit, near a house. Bocause the cair is in front of the house, you can't use all of the house. Some of it is objected by the cut how might owning to the high at the Uniform time seems of the house—but another part of the house you could see a moment age in now document following the test in proteins. Dischaffing and knodering a scene like this, including which parts of the scene can't be

30 APIs and the Terror of Infinite Hardware

Excise we hatted 500 pare for expects a but one for death of the second second

Whered and all the depth information, takes serious processing horsepower especially it you want it as 30 transes a second, moving in any possible distribut. New, let's make the problem even more complex you can now see part of the house through the windows of the ciry, but the windows also reliefs can of the cars fallings of the work. As and if it is

formy day, too. There's been some debate as to the image quality versus frame rate Issue Some 3D hardware may have features that result in gorgeous images, but as you turn on some of these cool innovetions, the trame rate coes from sifky smooth to slide show Because action and flight Miles are all about 3D animotion, not 3D illustration, frame rate is reciby part of the overall "Impoe" quality. Purning say: US New Figures at 1024x768--even on a very fast Pertium--will probably be painfully sion, especially with all the graphics goodies himed on. All times, it's almost like varging to a different location as the frame rate costs south. Even at a more sectate 640x480, most systems will have probterms with a game like USNF or Fusier Usungton. The goal is binger frame sizes (at least 640x480 native), better frame rates (30+ tos). and greater score complexity (more polygons). Game developers need to strike a balance between individual frame image quality at acceptable frame rates to achieve the desired overall effect. It's too sarly to declare a "winner," but stay funed, we will take a head-to-head look at real 3D hardware later this year.

SHOVELING THROUGH THE HYPE

Let's get back to marketing) reality for a moment. To say that the computer industry tends to overhype own technologies is file saying in a man the American project. Does this sound vaguely tennial? "3D graphics boards will give you incredible graphics realism, unparablete performance, amexing gatterpty—and it will butter your bask for walf." The finite in small of the even St. acceleration of the markst.



s acculanted version of Meo/Moreon 2 puts tension musand and sky, creating #-more r. "Issue activitimised

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address a very firmled part of the entire 3D graphics process. The complete set of 3D graphics computations is usually relerred to as the 30 provities sabelise. The 30 graphics pipeline begins with the basic geometry of the scene, then takes into account changes to the scene-transforms (remember, things are in motion), lighting effects, what's seen and not seen and then the actual vsodsking oil the scene

nto pixels drawn on the computer monitor. Most of these new chips really only handle that last piece: rendering the scene to the computer screen. A lew of them handle something called privitive setup, in which the pieces of the scene are broken down into basic geometric parts prior to the rendering. Everything else, including highly CPU intensive transformations (which calculate all the changes in objects as motion occurs), is handled by the CPU itself. With that in mind, let's take a look at various rendering textures. and what they really mean.

PASS THE LEXICON

We could write a small encyclopedia just defining all the possible terms used for 3D graphics, but we will only define feetures that are probably the most important, plus a tow that aren't-but are heavily lyped, so you'll be torrwrined

create the illusion of 3D reafity within the confines of a 2D computer screen. Texture Mapping, Texture mapging is what gives modern 3D graphics their realistic annegrance. A texture map is simply a bitmap or a picture that's laid over a polygon to make it look more realistic. For instance, a small picture of a few bricks may be tifed over a huge, rectangular polynon to make it look like a brick wall. Individual pixels of a texture map will

Remember that the ultimate goal is to

often he called Josels *Importance High Perspective Corrected Texture Mapping, Since a texture map is simply a picture that's overlaid on a polygon, if the polygon stifts because of a change in the viewing angle, the fecture needs to shift properly as well-otherwise. it looks very odd.

"Importance: High

Antialiasing, Il you draw a straight line on a computer screen at an angle other than horizontal or vertical, vou'll often see a stair-sten effect, often called "jaggies." Antiahasing blends the colors around the line with the color of the

fine itself to loof the eye into trinking that the stair-steps are gone. Antialiasing can also be arrelied to testures to make them took

*Importance: Moderate

Billinear Filtering. In most of today's games, one textl, (i.e., one givel from the texture map), is applied to one poet of the underlying polypon. This is called point sampling, and results in troduces appearing to "crawt." For each toxel, bilinear fittering averages lour surrounding levels from the texture map and applies them to the solveon, creating a smoother or more realistic appearance to the surface. This leature classn't come cheap since it effectively quadruples the amount of sork the processor has to do

*Importance: High

MIP Mapping. You may have noticed in some games that when you get really close to an object, the tere's suddenly get blocky and unreal MP mapping is really a simple concept. For each object, sayeral textures are stored.--for example. Three bookures may exact for our brick wall sample-a near texture, a middle texture and a far texture. As you move closer to the wall in the virtual environment, the textures are swapped to maintain the realistic appearance. If you combine bifu-





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CC



ver be the same"

— PC Gamer

'AH-64D Longbow is a must buy for every hardcore combat simulation fan or novice chopper buff."

— Comunity Fames Strategy Plus

"Intense and accurate the first truly serious helicopter sim." — Denny Aldin, Computer Caming World

"It's been a long, long, dry spell since I've seen a sim with this much quality, playability, realism, and just plain absorbing fun."

— Bur Hoffmen, Theydinister



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ear filtering with MP mapping, you get billinear MIP mapping. One of the most distantial tolorases in limage quality occurs when you perform billines filtering to the two closes MP mags, then expenditude out the result. This is often called Wildear Wildear Wildear, but it more induscately inform as foldmar AMP mapping. Like before all throng, without MP mapping adds a lot of processing overhead to the SD operation.

and can really drive frame rates south, *MIP Mapping Importance: High

"Trilinear Filtering Importance: Moderate
Fig. This is just what it sounds file; but simulating tog or smoke

effects also requires a lot of computation.

"Importance: High
Aligha Riend Remember our grants."

Alipha Blend, Remember our example of looking through a corwindow? Simulating barasparentry or partial transparency can be tricky and expenser in ferms of computation. Alpha blending is one technique to handle transparency effects.

*Importance: Low

Improvement Low
Lightling Effects. Remember those cost flashing lights in Doov?
Guess what those weren't really lights, they were easily clear graphics ficker in true 30, lightling is realisticatly calculated, and if you have a bunch of lights, all throwing shadows, if can really eat up CPU or increases no critical.

*Importance: Moderate

Sub-Pixel Accuracy, Remember our definition of fibring and MP mapping? The result of those operations need to be applied contradity the modelying filt subset. that's what subset period accuracy is for, it also smoothes a 50 object's motion, halping to reduce the "subseturing" effect.

"Immostrace Lee."

Gouraud Shading. This shrinkup is nemed to its menter, and winn you bear to it polygons connection optieth: the schala connecting vertex can make the object look unrealises. Gouraud shading strety brands in the octors of the the polygons to make the polyed vertex look sustainess and natural. Part shading is the other personners and vertex look sustainess and natural. Part shading is the other personners and very of shading, where a single color is used to fit a single polyce. Its man all deriver is that if it is expected in the connection of the color of the

shading gives a less convincing effect, "Importance: High

"Delifering. One of the trickest tasks in real-time 3D calculations is figuring out which parts of the sorne are obscissed, snown as higher sortice removed. Z-buttlening is one computational method for calculating which objects list inn frost and only undesing the visible ones it's downside is that it's memory and OPU intensive."

"Immostrace" Authorized.

bothnospook aside, all of these features sound really gred, and the resulting comes are purity minessee. But different 50 chaps accessed as these features with varying degrees of completeness. Some object only handle part of the rendering, learning this CPU to do the rest. The northinatile resist is that your farms ret may still swo down withon you but no a cool incretizing feature fries again, the jury is still coul, all as more on to some of the new 30 coolerator technologies and Last smore on to some of the new 30 coolerator technologies. WHEN THE CHIPS ARE DOWN

There are there main philosophes behind development of 3D opportunity and an extraordinate behigh, 3D opportunity profiles place 3D and the Swiss amy lorid appoints hybrid handles served affective multimade choices, not layer graphics). 3D-only vendors include 5D oil; Yamach an yide, with Fernation a, S. Allercar and 3T or adverting to the feature graphics solutions in a single chip. The multimedia chip sets include mylorid, accordinate and Brootlere Let's look of each of them hindholds has an advantage and the contraction of the set of the set

3D-ONLY SOLUTIONS

30 only solutions will filedy appear as add on boards, typically requiring a deficialer PC3 etc. These boards are going for all-out performance, and belong 50 etc. These boards are going for all-out performance, and belong 50 graphics to the earthing board. These vendors figure that most garrier arrivally have a sitt prajection board of some Min. Bit available PC3 stats are becoming more search, so that's a concern—no fines shall, no add on.

VOODOO BY 3DEX

The Voccoo graphs: cheest by 30th may be the highest performing 30 argains sold in estable. The real issue with Voccoo in the title cost it is a multiple city souther with two chees, and it also needs a deficiated memory and its store flexions. Now the good set deficiated memory and its store flexions. Now the good sold voccoo supports a log hasto of 30 features, and should be capable of vying 430 intelline, of terms mem antifring, overall image, should also be superior—perhaps the best of any of the products mentioned have.

Dechid has arrounced it will be shipping a board this summer, disbed the Rearrous 30, that will have 2 MB of traine buffer memory, and 1 MB of dedicated toolse memory. Pricing wasn't available at press time, but will filely be around \$300.

Also, NEC recently announced that its new high end PowerPlayer system will be using the SDFX chioset for 3D graphics.



ATI Xarussion 3D

YAMAHA RPAZ AND RPAS

The RPM2 chip from Yamaha was incorporated in a recent 30 graphics PCI add on bread from Paradase Graphics, the Tsawwa. But Tsawwa. received relatively little support from game divelopers. The never RPM3 has a good bearine set, but wor't be shoping until later in the summer. No pricing information was available at press time.

NEC/VIOEOLOGIC POWERVR

The Provider is a neverty amounted object, condended by MCB and videology, now MCB or large learning as a reportably videological articles removed method that doesn't require dedicated Zeufler memcy. Though a potential MCB and exit is an economical method for handfully lidder an article semand, but MCB will write support the buddraw so gaine developes can make regular Zeufler cell to use it. Company recently memorated that IS Messer's posture soil is scopped in the Mawrith Clink bitter his year. Now, Videologic and the oldering an and in booth of a root is 175.

FULL-FEATURED GRAPHICS SOLUTIONS Pull-featured graphics chips incorporate 30, 20 acceleration (for

test Windows performance) and enbourd WSA and SVSA for DOS games Because of the nature of contribing multiple elements, compormesses are inevitable, but theire's already good potential for reptacing your growing and properties because of the nature of contribing multiple elements, compositive are inevitable, but theire's already and productions.

RENDITION VERIT

Pendifor is a ner company focused on delivering a compiler applicationshold for first glarm play. We find the opportunity to see gamplay with the Yaref, and what we saw looked good Rendfler was showly lacked. As and the David projects signification with the the Yaref, and/our 2 played very world on a Pentium 100 with all residency features enables. What looked very good does to inhall not looked the Penting and MPI mapping, and the cast looked great as well, Microservania 2 for Windows Sk. while looked very looked to the Microservania 2 for Windows Sk. while looked very looked to Microservania 2 for Windows Sk. while looked Windows Sk. with Microservania 2 for Windows Sk. while looked Windows Sk. with Microservania 2 for Windows Sk. while looked Microservania for Microservania 2 for Windows Sk. while looked Microservania for Microservania 2 for Windows Sk. while looked Microservania for Microservania 2 for Windows Sk. while looked Microservania 2 for Microservania and Mic

Aff, in only smoothly on the Printin 900—eastly companish to to Printin 193 mining on of the auditative Mininos 21 acceleration switches have been described and 500 game performance state of the switches have been described and 500 game performance state of land printing of the SRA performance secretary state (above average for a Person 100. Though the VSR cost is an interest above average for a register of the SRA performance secretary state (above average for a register of the SRA performance secretary state). The state of the SRA register state of the SRA performance secretary state of the register state of the SRA performance secretary and state of the SRA performance and the state of the principle secretary and state of the state of the secretary based restricts and the secretary and the secretary based restricts and the secretary and the secretary based restricts and the secretary and the secretary based restricts and the secretary based restricts and the secretary and secretary based restricts and the secretary and secretary based restricts and secretary based secretary secretary secretary secretary secretary secretary s

image quality is tikely to be very good, approaching that of 30xx at a lower cost. Also, the Visinis performs some geometry settip, so less data needs to be transferred across the PCI bus, reducing a potential bottlemerk.

The first product to strip with the Vienne will be Greative Labs PCI version of the SD Bussner, Unified its VLB arbiting, the PCI 30 Bussner will replace the current graphics card in your PC, not merely supple ment if, All press time, proton hash to been set, but it will probably be



Diamond's Steath 30 2000

well under \$300 for a 2 MB card.

3D LABS PERMEDIA

30 Lieb has been in the 30 quijetis, business to sewul years, supporting higher 430 States for ware in obdised 500 Am 33 model no gaptime. List vieler, Centher Lists injected the VER-en/y 30 libers, without hast a state-down version 450 300 GEV drive, here in years to complete receiving 450 Lieb tourhold gard colorogous 250 Lieb Volen and all all willows a scorline and the complete of the complete receiving 450 Lieb tourhold libers of the complete state of the complete state of the complete and libers of the complete state of the complete state of the complete state libers of the complete state of the complete state of the complete state libers of the complete state of the complete state of the complete state libers of the complete state of the complete state libers of the complete state of the complete state libers of the complete state of the complete state libers of the complete state of the complete state libers of the complete state of the complete state libers of the complete libers of the complete state libers of th

S3 VIRGE

Sill instand mentaling date, the Ten 644+, and stated 50 quasitive by the Tennaturing on the vivile, such it is represented with the Ten 544+. Date benefit of this approach is that grantice and weeked are cause earlier of designs and their carefully frieng 3.00-capable card to market, their, Vinderbee polarimene is usual good and coupled for the market, their, Vinderbee polarimene is usual good and composition, and in part with the SS based carding good. Use not use the Ten 644-bit is used to the Ten 644-bit is used to the Ten 644-bit is used in the Ten 644-bit is used to the Canada to will resorve pulp.

Differ companies using the Viene include Hercules, with their Tenenuous 64 SD, Number Mine's Morror 330'x and STB's Powerserver 64 SD. The Hercules care there is have single-cycle EDD RAM, giving it just a bit more juice in the memory department. All of these cards should fit close to \$200 for a 2 MB version.



GAMING IN THE NEXT DIMENSION





Herculus" Terminator 64 50

S3 will also be doing a VRAM version of the part called the Vivos FX. One caution about the Visco: early versions of the Visco support. only 2 MB of DRAM, so it you have the user to add more memory. later, check the product carefully. By the time you read this, though, cards supporting up to 4 MB should be available

ATI 30 RAGE

Like S3. ATI took an existing design, the Mac+ 64 used in its GRAPHICS XPRESSION and GRAPHICS PRO Tursio products, and grafted 3D capability onto it. We had the chance to play on a beta version of the 3D Xpression card, a 2 MB DRAM card. ATI supplied us with an enhanced version of Microsoverics 2. Although the resolution was slightly lower (512x384 instead of 640x480), it looked very nice. Sky and ground textures had been added, and the polygon count of all the objects had been significantly increased. Better quality textures were also laid on all the objects, making this version of Microsoveron 2 look. as good as anythmo else out there. The sky textures were even arimated, giving the impression of clouds soudding across the sky. All these new textures came at a cost, of course; the default installation yest from 4B MB to 72 MB.

As for performance, we did notice some mild trame rate hits in the heat of bottle, but nothing severe. The same couldn't be said for the version of Assaur Rigs they supplied us--at the highest resolution, the frame rate on Asswur Rios became pretty policy. Windows performande was excellent, but VGA performance was only average. The Xexassion 3D will be paiced at around the \$200 mark.

HATROX MYSTIQUE

port from game developers

Matrox has actually been in the 3D game for some time now. Then latest 3D card, the Miumum, has also gained the peoplation of being a very fast VSA and Windows card, However, the 3D teature set really wesn't tuned for games, and the Millenium received almost no sup-

Matrox has taken a different approach with the Mysticur, with more crophasis placed on 3D performance. Though based on the same basic engine as the Macrouna, Mystique uses a different memory controller and PCI interface chip. Matrox has added support for perspectve-corrected feature mapping, Z-buffering, and MIP mapping However, the Mysticus doesn't support biffnear tiltering or blending-tog or smoke effects are handled through four levels of screen door transparency (if you've seen the smoke effects in Chuck YEAGER'S AIR COMMY, you know what screen door transparency is). Matrox's philosophy is that nothing should compromise trame rate, so they chose to forego features that could bog down frame rate Because its raw Windows and VGA performance should be prefly high, this card bears a close look, but the feature set means that the image quality might not match those of the other solutions. Still, if the 3D performance is comparable to its SVGA and Windows abilities, this could be an interesting part. Current estimated street price is about



O citive Laber PCI 80 Birther

CIRRUS LOGIC/3DO

Recently, Circus Logic has announced it will incorporate 30.0's M2 3D technology into its line of graphics appellerators. While Circus Logic's graphics chips have been at the low end of the 2D spectrum, the addition of 3DO's M2 technology could result in stellar 3D performance. However, not much else is known at this time.

MULTIMEDIA ACCELERATORS

Several companies have taken the approach that 3D is just another tacet of multimedia technology. They've taken 3D and 2D graphics. digital sound, joystick inputs and MIDI music capability and integrated them into a single chip or a couple of chips.

CHROMATIC RESEARCH MPACT

Another startup company, Chromatic Research, is working on a chip that will do everything just short of the dishes. MPxcr will handle

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when a sunge hits an unprosected peripheral, it can bluse down serial and data lines, and troor your expensive PC.

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EGAMING IN THE NEXT DIMENSION



20 oraphics, 30 graphics, digital wites, wovetable synthesis, general wave audio, and fax/modem, and will be able to process several media. types simultaneously. Though an ambificus undertaking, design compromises are inevitable. Its current 3D feature set includes only Zbuffering and MIP mapping. We only saw a very early beta demo of the chip where Direct3D was still shaky, so we don't have any real lowdown on this chip yet. And whife its versatiffy is certainly impressive. its thin 30 feature set does leave us somewhat skephcal.

NVIDIA NV1

The NV1 first appeared in the Diamond Eose 3D, and has since surfaced on the Jazz SD Mvac. The Eose SD was probably a product that was "slightly ahead of its time," and suffered from some feething problems. Windows 2D performance was mediocre, and DOS VGA. performance was pitful. Visita Forest looked awfully good, and the use of the Sega control pacis was pretty neat, but no other thes have appeared other than the four that shipped with the Foor.

According to riVidia, that's about to change. The Windows drivers have been beeled up, and the VGA performance has been tweeked as vel. More importantly, a number of new titles are about to appear, including a hot rod version of Microsovece 2. The MIDI music samples have been greatly improved as well. Also, nVidia has taken the criticisms to heart, and is busy working on their next-generation NV3. chip, though details are still sketchy. We weren't able to test most of these claims at press time, but we'll definitely take a closer look at the nener NV1-based cards as they arrive



THE IMPENDING SHAKE-DOWN With any new technology, there will be winners and losers in the marketplace in the short term, some of the pain will be alleviated by the use of standard 3D APIs (see sidebar), but nonetheless, it's likely



Diamont's Edge 30

that of the 30-plus players in the 3D graphics game, many will be gone within a few years.

CGW has taken a very close look at most of the major players, and what we've seen looks very encouraging. There are still questions to be answered. How will DOS games play? Will Direct3D take hold, or will developers be forced to support multiple pieces of hardware, and will hardware vendors in turn have to bundle custom-coded games to make their boards palatable? Will even 3D performance meet expectations? In the need few months, you can be sure we'll be point over real shipping product with our virtual fine-tooth combs and let you know it it's really worth it. We can say however that the die is cast, the game's afoot and soon we'll be wallowing in 3D hardware. We can't usat %

				Military Manager			
Product	Creethe PCI 3D Elepter	Steven 30 2000	Hercefor Terminatur 64 30	m 33 Apresike	Matox Mystique	Denced Edge	Orotal Rightman 22
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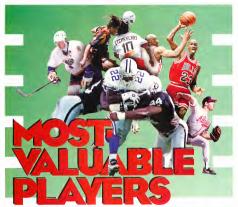
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CGW Surveys The Field Of Computer Football, Baseball, Hockey, Hoops And More

hen the Olympic bother fees up this summer in Affacts, a will must be followed an extensive the modern international affects competition—a landmark evert, And of the U.S., it couldn't

come a moment too soon, as professional sports once again indistingt its staff three deep in what Part Riby calls "the problem of me"—players so self-absorbed that they're killing their teams and turning off their fans. Sure, it hasn't been all bad, but for every moment of thumbh—Divight Gooden's shunning no-hitter,

the Butis' avesome domination—there's been an equal act of stupidity. Players have been showing reporters, head-buting refs, and even abandoming their teams to go water skiling, for crying

out loud.

But, hey, don't get us started. In the world of computer sports games, thank goodness, it's been another banner year, as games across the board continue to get better and better.

games, timer goodness, it is been anomer basener year, as games across the board conflints to legible better and better Smarter Als, gorgoous motion-captured 30 graphics and more spiritiational pulsages and statings are all helping to put computer sports fars deeper into the action than ear before. So these to your servisions and follow us on the filled as we survey the riets (and misses) in this year's sports games, and take a servision companies of the properties of the properties of the servision and the properties of the properties of the service when the most omnition plasms in the passon alread.

PICSKIN PACKACING

Do More Graphics And Action Equal Better Gameplay?

BY TERRY COLEMAN

s the RFL pose further into its eighth decade, questions abound. Columnity, chronors, conwrith the Dosphins, win the Super Board that eladed Don Shaba after end of this incordised request five discopping Section on got the expect five decomes an econols that Alless's Are Emmit Simits harmanings really shared five Boe Boom worth the amilton is in crosses as the Galans unknown DBP What fourthan of youth colors are TRES or disk or sections.

does Jerry Hoo drink from?
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action criented game angless
over captain the bail of the
pro pleasing game? Are complater couches soon to be on
the unemployment liter? And
what shoul soon that soon

STATISTICAL DINOSAURS A big concern for any real loofball fan as how the stats are generated. Problem is, the stal based sims are fading tast in football, unifer their baseball brethren. The only pure stat sim I still recommend is 3-tv-1 Football, (Lance Hattner, 800)-477 7032 or 615-366-B038). You can autorials entire seasons in a couple of hours, and "live" games against the computer or hotseat vs. another human coach take maybe 30 minutes. Forget graphics, this game concentrates on a strong computer opponent and realism-the stats generated are the most accurate of any toofbell game on the market. Every great college and pro team from the dim mists of time is included, along with the particular rules quiries for each era; Lance also set's season disks from the 1950s onward, for those who don't lett teams such as the Dallas Texans were obscure enough. It you're more interested in re-creating the

Dolotrins' perfect season than in timing your passes



LONGLY & BITMAPPED Tired of basing the AP When From Prog Shorns Formul. Pro 97 bursts from training camp this fell, human ocaches will finally be able to test their mettle on the observed finishing orders are.

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more association.

(Our apologies to the neighborn)

Our apologies to the neighborn)

add new sounds and instruments to your card. Add up to 28 MB of memory to create your own audio library. We even included a microphone and software for recording mass cand sound effects. And, of course, the AWE 32 is fully Plag and Play and works with Windows' 55, Windows 31, and DOS. So installation is a

no brainer.

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Small Bash? Spalen sall

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The AWE 32

Sound Blaster AWE 32 PnP. Hear What You've Been Missing the groupes

puts professional sound technology from E-mu

The crowd keeps growing

until they have your house surrounded.
Then the chanting begins, "A-W-E...A-W-E...A-W-E...

It seems that Sound Blaster' AWE 32" PnP is the first





"NEL trounds" Brings Gridinan Ghosts Rock To Life

The music swings, the sax solo burning in time to Jim Thorpe, as he cuts left, then bursts into the onen, chased by Brooko Nagurski. Leather helmets clash against pags barely large enough to contain the massive sinews, as the Iwo men tumble out of bounds. On the next play, It's Thorpe again-no, it's a fake-Knute Rockne rolls might and throws deep to "Crazy Leas" Hirsch, Touchdown!

A highlight real from days gone by? No, it's the treshest idea in

wars: take an action-oriented feetball game, add solid statistics, place 60 years of meat obvers at your fingerties. Accordacie's ambitrous NFL Legrace uses lessons learned from the University Rouginess

series, but as designer Kevin Hogan is quick to point out. not a line of code has passed from that game to NFL Legence."

NO SINGLE WING

You take snaps from center in four eras-1932, 1960, 1968 and 1996-and you can even match teams from attievent eras. Sammy Baugh's Q8 rating might soat with the modern rules favoring passing. And who, other than Delon Sanders. would Jerry Jones keep on a 1930s roster # the Cowboys were firrited to only 20 play ers? Could the wourted "Four Horsemen"

1937tsl 300 pound defensive linemen and

Opistyle Zone Bittes? NEL Essayos revels in the celebration of targetthan-life players and great teams. It allows you to play "what if" with

And it feels like footbell, not a watered-down arrade imitation



There's clerify of action in both the running and passing games, the blocking routines take into account angles, player intellinence and Agility. Completing passes seems easier than in Front Pres 96, and yet more realistic than in John Microsy-no more of those 48-yeard bombs every third play found in UR.

Some 24 audibles are available, along with the ability to create

plays and optimize your playbook. Other nice touches include the off ferences between real grass and Astroturt: dete nioration of the field; ability to accelerate; trac-PRESEASON tion in bad weather; and of course, injuries, which can carry and attest a player's performance during a season. The digitized music changes from swing in 1932 to early rock n' roll in the 50s, and on to more modern

sounds. The playing fields and stadiums are faithfully recreated in each era, as are the rules. In 1932, for example, you have no hashmarks; if you run out of bounds, the next snap is on the sideline-which makes for some creative clay calling 1473 300 like having the Pro Football Hall of Multiple seasons are included for

career leagues, and you can trade not only players, but draft choices as well-a big improvement over FPS Football. If your reflows gren't up to fast action you can just coach to your heart's content. Now excuse me white I go don my leather heimel-my Chicago Cardinals have a score to settle with those cooky 49ers, and this time we're nisong in my era

A SHATTERED LAND A VILLAINOUS USURPER A CALL FOR HEROES

Rise To The Challenge...

NEW WORLD COMPUTING, INC."

COACHING CHANGES

Universification 195 made some positive changes, but it wasn't enough to please the management and tans, so it's cut the door. MicroProse has sinned with ABC to form DT Sports. and their first release, ABC Movov North Formy L. looks to have the superstar appeal that UF lacked. Dan

Dierdorf, Frank Gifford and Al Michaels add nozzazz, and the multimedia and production values are close

to those of the TV show Whether the flash and the excellent graphics will capture the computer Neilsen ratings

are dependent on whether this blend of action and strategy moves beyond the old UF engine. We'll keep you posted In even brigger news, John Massen Footswill 97 (EA Sports, 415-571-

717f) won't be out until this fall-the first time in recent memory that It's storged a season. Mycolin has fixed off nast plonies for long enough now that its position as the action tootball king is no longer a certainty. Pagent versions have focused too much on interface and graphics, the gameplay, once the industry standard, has suffered as a result. The draft module, for example, closes/I work as well as that of Front Prot 96. The passing routine is overly simplistic, just as From Prox 96's is too hard. Myconi doesn't commit the expectous arcade sins of Hakbeau, 5, but it is way too stanted in favor of offense (even for the pass-happy NFL). It's more than a Vitte irritating when an average receiver can catch pass after pass oven when double-tearned by an All-Pro corner and free safety. The detense, once criticized because the Mad Dog Bitz was too effective, now makes The Street Curtain look like moth-roten fabric. So, I have a lot of respect for EA Sports' decision to wait until the engine is revamped, instead of



releasing "Madoen 95 _ " If Madoen 97 is oven the royal treatment that NBA Livil received, football fans will have a lot to

chaer about

And what of Facur Page Football? The original engine is giving way to a younger batch of code. The new draft choices promise tweaks to the already strong A1, an easier passing mode (finally)), and-hold on to your facemask-multiplayer play. Plus, the annoving number of 99-yard "runs to daylight" should fall by the wayside. But as usual with the FPS crew, the game won't malishcally be finished and on the shelf

until near Thanksgiving. So, suffer through with Franker Pag 96's excellent maribles and career mode-stiff the best football sun in the land-and be sure to whine at Sterra (900 757-7707) for a reasonable upgrade price

NETWORK BOMBS

In the meantime, don't hadri your breath for on-line action elsewhere. either. The new NFL Lcopios (see the Sneak Preview on previous page) allows horsest, but no modern or net play. And the version of FPS FOOTBYLL Pilo on IRN (415-548-2500) is DK, but you rarely find an opponest from February through August-and It's an old version of the game engine, at that. The Foorage, Pag leagues on Compuserve offer more opponents, but you aren't really playing "live" but against your opponent's pre-chasen game plan.

Still the emphases by the "Division I" programs to hold refeases until the gameplay comes close to the technology bodes well for football fans-whether their game plan calls for action, simulation, stats, strategy, or hopefully, all of the above



ATOP THE MOUND

Baseball Slides Head-First Into Your PC

BY DENNIS McCAULEY

I there's one major sport that's perfectly suited to computer simulation, if has to be baseball. With its historical emphasis. on statistics, the national pastime provides perfect grist for the number crunching that personal computers do so well. The light geometry of the game, its timeless sense of page and its rich history have combined to keep sports came. developers busily coding balls and strikes

What's amazing is the effect that baseball fans' passion for statistics has had on the evolution-or seeming lack thereof-of baseball products As we near the end of the second decade of the home computer revolution, a surprising number of offennos exist primarily for their statistical appeal. Oh, a few have added a stadium backdrop here, or an announce er voice-over there, but it's the underlying stat engine that really drives many baseboli comes, in an age when most names

become vesterday's news as soon as the next technological wave hits, fully half of today's baseball games are static products driven by statistical simulation. The other half comprise solashy, graphics-heavy baseball products. These leature large, fullmotion player sprites, arcade action, music and loads of atmosphere-right down to the box-birds in the bleachers

STAT ATTACK

One of the old gros in stal-based sams, Lance Haliner's Full. Count Baseaux, now extends its career with version 6.0-and it's



TURNE BALL You'll have to decide for vousself whether Risseau. For

Vincews is worth the steep learning curve, but Buy Javes Buckupsow, or



a very serviceable product If you don't mind investing the time involved in manually enlaring lineups, priching rotations, and the five. On the bright side, once you've taken the trouble, the game can store up to ten preset lineups per team. Designers Haffner and Shennon Lynn could have made seasonal

replays much easier.

however, by coding

stock fineups in dur-

The true appeal of

ing production.

FIG. COURT IS the

hape number of teams included:

every big league

club from the most

recent season, plus mery World Senes



styl-based play. First Court Buseaux is an attractive

and playoff feam. sisce 1970 Ambitious fans can set up a massive fourney to find the best from ever or kett replay their favorite tall classics, using the likes of the powerhouse '27 Yankees, the Gas House Gang or the Amazing Mets

The text-based action is played out over VSA backdrops of major. league stadiums. Full. Court has lefty-rightly breakdowns for post 1984 learns, generales from acherboles and auto-tracks rest days for citchers. The crame's chrome includes weather, injuries and realistic pitches usage options for every era of professional baseball. Full. Court also offers a player creation utility which namers can use to make teams. provided they don't mind keying in 37 rating categories per player. There are some quirts, as when the trade routine queries the player whether the team involved has compiled stats-something the software. could easily keep track of SMI, Full, Count Baseaul, 6.0 provides good value, since garners who relish its brand of stal-based strategy are less likely to be dependent on interface nicelies.

THE CRITICS CAN'T ESCAPE THE SPELL...

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SPORTS SPECTACIII AR



NEW STORMFRONT COMING ON Your Listness 3 ron 1996 gots the "welldest total" award, but it's also the front-runser in the graphical basehalf sim post.

MILLER DDES WINDOWS

The latest version of Miller Associates' Business. For Windows incorporates an improved league manager module and new micro managers, including two that correctly handle pre-closer era plicking statis. The game cornes with several didfiller barris, these complete past sea soas (1921, 1943 and 1971) and three balliquids.

Of all the stabilised simil, because of will open as most people for envelope bowed multimards. While play is still stable and the blassed, it takes place as the beamfully instructed balapier graphers. Permier Obtect Typer a monacrose fame in teresial does an extensible play ying, and for an addross of 8 minster on the CD-Both offers selectorist and prosens has many years behind the mile. The chamming statum sounds in 845Mars. I row Woods best fillings have an oright stabilist and \$45Mars. I row Woods best fillings have in an oright stabilist and \$45Mars. I row Woods best fillings have in an oright stabilist and \$45Mars. I row Woods best fillings have in an oright stabilist and \$45Mars. I row Woods best fillings have in an oright stabilist and \$45Mars. I row Woods best fillings have in an oright stabilist and \$45Mars. I row Woods best fillings have in an oright stabilist and \$45Mars. I row Woods best fillings have in an oright stabilist and \$45Mars. I row Woods best fillings have in an oright stabilist and \$45Mars. I row Woods best fillings have in an oright stabilist and \$45Mars. I row Woods best fillings have in an oright stabilist and \$45Mars. I row Woods have the stabilist and

The lacok on Milbrit game is that it is not very institute, and anticubly has the steepest learning curve of any product on the market. I've enser understood with Milbrit Association distint combine the modules, limited of locking games to know which to click separate Laugue Managar, Annered Earl or Baskabill is Wildows locks. Considiating the modules would make the game much test combining for newsces, with so less in handardally.

Another Miler Associates product, the Bit. Juvas Eucrosic Because Description, is a mainthee product for fan of the radional gestime, and its salts may be imposed in Bosesur, res Wissows. Bit Jumes on DO-POM his the final word is statisfied all analysis, a flowing users to look up statisfic on any professional biologisty after series compare firm, origin them and print them, is short, the Bit. Juvas Enconcerus alloss and does salts an even vou sent? I en

WORKIN' IN A DIAMOND MIND

Division Min Disseau, is the essence of the self-losed game; all sigtifiets, no prezent. It can take and take the numbers as well as or better than any game on the merket, but in miss or a atherny darkshed at graphics. If the idea of a game that's all take screen puls you off, then skip princial. It, however, you've writing to give a glastic to a liftle game with a boly time statistical princine. Into Mouron's Morror are garded to you. No rooke, Duvono Nero was fromenly known as Pureue. The Pureue, inche a leterating agreement between its designer and the board game company of the same transe. Now of on their coun, the Duvono No bolls offer a sam that has much to recommend, it eggs citizen to be supported by the same technologies of the same software to be supported by the same technologies of the same admittable the minutes on a Perstain 133. By comparison, the prerietness version of PS Sestaus. Pro bods November on an analysis large.

release version of IPS Sessau. Per took hours to sim a smaller league. Not only is Diseaso Mise mittel, but it's deep, to with hundred of statistical categories available. The interface, however, is about as excliing as watching gassi glove, and some may not working through the game's layered approach to locating information anther testique.

TONY LARUSSA 3: 1996 EDITION

For the new season. Stremfirmd Stution has relicated an unduffer to their popular Trave. Justice Season. 2.5 miles and patient. Desire inclusion of hand to bread startidos for each better and patient. Desire your light better glanching box Gray Madason? Detter gover time start when the Extreme as in time. The betweening Howly, That can give hand be bread option in computer emistated graines can alone you down monotomy. Stemmer has do starterin in surfacini betting parties marker, impacting here hillings will do with rutness in scoring position, or contribution. One contribution of the contribution of contributions of contributions. One contributions of contributions of contributions of contributions of contributions. One contributions of contributions of contributions of contributions of contributions of contributions. One contributions of contributions of contributions of contributions of contributions of contributions of contributions. One contributions of contributio

Town 3: 90's auto-play observes marrinon, as it's cyack, if not especuly accounts COW similated on entire American Loague season in unfer 10 milatuses. Sals were Seleved to the high disc offermissely, though, with sixteen players crashing 30 or more hormers. One cutleaded made demonstration and only these colonics of through 5th was an and leaded case, and foots as though it may be an internal nating error. Coding, the below version we fooded at the ARR bit shift do a processing, the state version we fooded at the ARR bit shift do a processing.

rather than the traditional raw number. Hopefully these glisches will be addressed in the Shall release. Owned, though, Torr 3: 1996 qualities as a fun graphics oriented smithalf's easy to newpale, thanks to its intuitive, button-driven interace Learning the mechanics of hitting and distring can be shoke and user.

combined felicing a beal in the superimental flow players. The game includes a Finaley Deal Neumann, as well as what Stemmont calls the GAD Challenge, which is somewhat also to carrier leagues their those location in the Finance Produces Servers sears. Some disable value includes three somouncers—held Allen, Lon Stemmons and Harrie Germandid—who are all implyable and provide constrict victors throughout the game. If you protest, you can boggle the amouncers off and set on with the said of any other throughout the produce of the said of the produces the said of

DUTTA HERE!

With such a wide variety of computer baseball games eveltable, the thiggest problem tecting most players will be deciding which one to perform that sends you participates and action that sends you back for more, or are stats what makes your knockle belf buttle? Either way, if you're ready to play ball, there's a game out there for you, coach.

for you, coach.

Next month, Dennis McCauley's sports column focuses on Mirroril event Receive 6.0.

CG JULY 1995

BASE INSTINCTS

Sierra's Baseball Franchise Heads For Another Winning Season

BY DENNIS MCCAULEY

is min's from Flags Sports in the se solidated thest as on of the mind successful croping sports of the mind successful croping sports seeies in the minds of computer gainting. While most of the commentate pass cook is, Sterrin ama tank of commission them respective markets year after year COVY troutly got a sender good at the flags commission more relosary, and while the mask both version we saw was unfinished in some rouses and evaluated flow in 10 miles. Pater was low sufficient in 10 miles minds and would find feel laining in others, there was

enough beef to indicate that, for baseball fans, 1995 could be a very good year.

be a very good year
White the previous incarnation of FPS Baseball, extended
in 1994, was strictly an MS

DOS version, the taitest vintage is a native Windows 95 product, and that itself is big news. The parm's lineage is apparent, however, and anyons lamiflar with past Front Page releases—either baseball of lootbal—should be able to jump in and natingste through the program easily.

SIMLASORDA

FPS Brozzell. Pro 96 offers planty of gameplay options for would be managers. An areade mode allows games to control the plaching, Nitting, and fielding of their players, while a managenial mode list in computer handle the mechanics, so you can concentrate on the high-



100 Much REALISM? The sperse crowd in attendance at this game must have been modeled after the '94 strike season. Pearurs, anyone?



en extra som, som serre a improved graphies in PMS Bistrat, PMS gre en extra so the action when shaing for home.

or level decisions, such as when to make the occube-ordich, and whether is take posted chips or preteate during the 7th intring stretch. Gamers who want to capture the interventy pace that is the seasons of baseball can opt to play poich by pitch, white hard changing Type-A parsonaffilia can logge shape-ordic mode and be done with 4. With a little short Jeanns can invest hardroad clicks into the parrie,

With a Bill self-of, given can input ferbidinal clock in the gains, in original fer lates and the "He self-of". Correct places are Deliver for containing the care mode that has become a system or the Front Piper and the Front Piper and Containing the Containing

BLEACHER FEATURES

Speaking of ballparks, Bustleut, Pino 95 incorporates 3D models of every current major-league park. The stadium graphics are quite realistic and water the best to date of any baseball sim. In general the parts

fic and easily the best to date of any baseball sim. In general the game is much more graphically appearing than the previous addition. For this year's model, Sierra's graphics crew employed the same highres motion capture-based arrindrion that made FPS Pro-Foreuru, 96

so dazzling. While this technology provides very fluid player movement, it does leave some very obvious jaggetd edges in dose-up shots. Perhaps the oddest graphical occurrence in Buseaut, PRo 96, though, is the ball Hadif, which occessionally lakes on the dimensence of an oversion containing. First salast amont?

sions of an overripe cantaloupe. Fruit salad, anyone?

Sierra's well-done CAMS (camera angle management system) is

Settles we show the control panels and pre-integration opening or before children present interfered weeking register was the a channel for gramma to see and ead tippes of their tip gives. Starts is also builting improped and and a fast immost their thip control is an imprise ment over the 94 model. Frankly, the sines that I am on a high-end Frathum was testatingly slow—1 bold may have to go through tall a season—and the selficial excuracy was onlying to write from should be proposed to the state of the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be proposed to the self-time that should be self-time that should be proposed to the self-time that should be self-time that should be self-time that should be self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should be self-time to the self-time that should b



HOOP DREAMS

Computer Basketball— No Longer A 3-Point Shot

RV TERRY COLEMAN

des Vexons has nor medy fir it not student of the second o





TAKEN IT INSIDE NEA Lax 95 actually puts the superior power of the PC

SLAM DUNK

The original NBA Live is one of the best sports games of all time, as significant to basiserball as From Pivil Shrows Footbul, was to the gndinon. It was the tiest adding game that played like real bestign, instead of some alean aroads hybrid. It would have been easy for EA Sports to take the wavers and get fiel, as many modern athletes tend to do.

Instead, NBA Live 96 builds on the success of the original and corrects many flaws, both in terms of action and simulation.

Whereas in the cognition to much resolution was placed on where by classed the Markey, and explained vasish delities not be made as if a still describe Markey, and explained vasish delities one handle and a still describe Markey and was delitied. The still describe Markey and was delitied and more for the Markey and was the Markey was described with more for the Markey Markey and the still described and the Markey Mark

Through is more robust, but it lacks the appeal of From Post Formus. Par's cared lagues. You can chall custom players as well, but it in would be really use to see EA harman hoops than with some all time groot teams-maybe in NBA but 977 Morp, the injury ratings are fur too loopsings. If head were right, Stray wouldn't have missed more than 2.3 gomes, instead of the tind of the season he turned on in real file.

These quotables are mice, however, when you consider the entity mergers of all of the misseed days callen growns and such manuscription. About the not yield will all one or the design-you can now call plays on the by row-are the numbers. But finds, and under which problem "length delensers" such as others. If A new youth smooth as colleger street, the regime would be prefixed to innoverse dementary by the county times, "lampless intumous matching over of other Beroom's butter delenses at ISLU," with the time. If length you maning the packs not with National-and continue connecting rational your Wall Demental County of Wall

CDLLEGE PASSES

Another edition approach, Courter SLAM, doesn't make the transition from carbridge to the PC pros quite so well as NBA Live 96. More Pap-Mon than basketball, the best detense is to set the basket on the so that

SPORTS SPECTACULAR

your opponent cen't score if you find this son of hing furny you'll probably goothe up the govern piles and stim may hardy vectoring that the bell near goes out of bounds. Add from the rempens stillness, I can't stomach a colloge hoops game—even as a bad jobe—that leaves power bioses tile thortems NOAV champ busints out of the threep Then appair, you can always have a Mann often as your port quart.

A more serious approach comes from GTB Extentament, whose serious approach comes from GTB Extentament, who can KACA Chemical Beaching, attempts to the the found the Science simulation of the College hopes serial. He form Price FE, of lotter as career most, whose you recruit by price states the your projumen and develope from over the years. Some of the realize are dot still you and schooling pound to related indice as high for three-pointers as for thorse-rough beaded SRU. Then are some rice foundation, such as your largest remarks the confirmation of the series of the confirmation of the confirmati



DRIVING THE LANE NOAA CHAMPING PROCESSOR Drings career legging, better All and more incompositives the computer college thoses soone has seen for many seasons.

True Fontosy Basketball

sect Influent's Tie Pro Gene to get 16 of the greatest terms of all time in a season-eng competion to determine which term was tripl. "The best." So that dider teases could be compotffee, selected the option that played in the variang team's style. On one occasion flaving with older rules, Genery Makhan of 154 Minnepots outdoored Stackett Prefet SSSs at the modern player was battled by Mikan's 645-test-conet, but effective flowle size.

Intelligence and the second section of the second section of the second section of 17 cm set. The life "section of 190" cm section of 17 cm section of 17 cm section of 17 cm section of 17 cm section of 17 cm section of 180 cm se

Richman, Terry Associ, tough orderse and accurate electric, the series integro on without According could get With in full woulds, otherwise, "The SRIT" did anything he wasted to the opmatched Buts corrects, wouldig, the glina sourced to pre-full games those and but, but when the Buts total is chance to statil game from a content, other port in every woor tipp betrayed them. Avery West Ban soored 32 points to put game ask and the series, and if alless.

series, out of reach.
The replay was a bit of a pain to set up, sence I had to enter every game in may make-below schedule: Dut statisfies must give many game below schedule: Dut statisfies must give may game belowen Bert hogge hereas, which make a the outside the state of a propial set has cent in the control of a propial set has cent in reach of a part of the state of the statisfies and the statisfies and the statisfies and the statisfies are statisfied as the statisfies and the statisfies are statisfied as the statisfies are statisfied as the statisfies are statisfied as the statisfies are statisfied as the statisfies are statisfied as the statisfies are statisfied as the statisfies are not the statisfies are not relative to a possible statisfies and the statisfies are statisfied as the statisfies are not relative to a possible statisfies and the statisfies are statisfied as

dreamer like so many of us

the option to struvular harders with a company of the company of t

SCORDHED SCHOLARSHUP Course Scan, with its burning boops and power pile, bends the rim in all the wrong

ney takes att;

and you have

At this early stole, the At is still in development, but the game does have a true baskebal teel flou can work the bell made, or drop back in a zero, and passing is crosp. Regordless, this gemi self flying to corroller against. MBA Livit as much as often a bridge between the action and stat based besided since, with a flux restrictional and payer development mode.

"I NEVER FOULEO OUT."-WILT CHAMBERLAIN

How do the starbased sim guys stay in business? They continue to support their products year after year. Lance Halfner Games has one of the most playable systems on the market in Bruil Court Business and Bearmau.: The Pivo Gave. There are no buttons, no mouse impt. no visuals is specific-lipst realistic statistics and challenging generating. but Harther's 30 and Formus, the rempts is an on quick play. a full gener of Fisu. Court is elapsele in 30 minutes, Pivo Gave in about an hour Artificiated through it might seem, these are quite manageable for hossel play, although the strong Albertilla from Lance having lead a describe to entirely.

officer to perfect in
The real reason that gamers are still drawn to Lance's
tuning
basistetical games is the chance to let, almes Westley drive the
one
lane against Will Chamberdan, to have Bill Pussed Hose,
shots by Shaq, or to let durry West match three porcess with
Larry Bred. Could John Wooder's best with Low Alconor
have stopped Quies from winning back looks lifes, or most both

terms have fallow to Bothly Kright's undetected 1978 ILI Hootees? Which the possibilities are critices, the minuted you use to got the could be better. Lance's market about could only be helped if the reduction to better. Lance's market about could only be helped if the reduction to the properties of the properties of the reduction and the properties of the reduction to the reduction and the reduction to the reduction and

which would give this

a bid edge over the

competition.

Run fast. Run smart. Stop and you're dead.

5 CDs of interactive suspense.

Real actors. Real time. Real tough! A sheriff's deputy is murdered. You didn't see anything, but the bad guys shoot first and ask questions later. The cops want you for the murder, and at this point they seem like a better option than...

Your legs feel like lead. Your heart feels like it's going to pound right out of your chest. Your lungs are SCPERMING for air. If you could just get to the...

Truth. Innocence. They don't mean a thing if you're dead!



PUCK OFF'96

New Hockey Games Slice Up The Ice

in the release of four new products in a 12menth spart, this is a grotific time for computer hooley. It wouldn't be in virtually any other gaming category (can you say "hower-

calt racing?"), but it is here.

This foursome seeks the current hookey.

This outsome seeks the current hookey.

This housem seeks the current hookey.

This housem seeks the print from utergraphical to test-based, and from really good to pathetic, is there one
game out three that manages to laithfully receives a true-to-life hookey.

Annothment? Each if the exe and surve the convention.

FIGHT THE POWER

Virgin's upcoming Windows BS game, NHE, PowerPuw BB, should provide the most realistic hockay action ever on the PCL (Note that "should" is the operative word here, as final code wasn't available in time for this critice)

PowerPun's strength lies in commoning us that there are real, thinkling hockey players on the lice. Will be go this way, that way or pass the puck? It depends on the situation and the player Will penally blains automatically loo the puck? No, that depends on just how hard he's being pressured. Are there are "sure bet" player little holes in the pro-





It's this on his malian that game designers fluidual. Extentialment (lider responsible for Berri Hull, Horzer, a game lang on dete but short on excelled) are counting on. It the final release is the of the applican and often consensual across seein in other games (and sometimes doubter in the Perceiptur beta), that alone will make the game worthwhile for the serious computer holding lyster.

It will have to its, because PowerPur is messing a fair churk of the graphic fiel; manogenel options and intitle extras to which with the bocome accusionment with gennes like Einstrome. And SML Hocker 98 For stamturs, PowerPur has just one powring, 70 degree end-vionic common angle, and players are too small for learn logos and numbers on their prissays. Games will run in VSA only—a difficile stob backward.



GLIDING ACROSS THE ICE Not cary does NHL PowerPury 96 look like hooling.
It's the closest you'll cose to feeling the puck on your stick without actually

On the other hand, pages animation is very strong, with stepsolobut differ term with stoke, and horising had differs from poise closeling. Strategists will be desupported by the loss of plager trades, but will be in low with other couching options, including man-form ann weeks, zone ownering, speedy wreas coubtrus breshouls, and more, all changabled on the JK And Ves, couching beyer do the are personnel effort on the action. For hooking withinsestes who perfor game martism over creative from the couch be a commeltation conduct.

ICE ICE BABY

Act switching on EA's breakthrough NML Hoove 96 % a rush. Great sound, 214 contury menu screens, statis as for as the eye can stepand month/shiftchatchery graphics that include numbered and logo-embedisted posses and loe reflectives make the game seem drop datal aversorm at first in SNGA with detail cytotros constead; if it multiple a stug on anything has a Protium 97 or above but the visit shows its amount state.

Nell, Hours Rd, Rough, An't Something that appropriates with time. That is no law, An't be mild further and Six, exceptible contributions way to registible celled be mild further and Six, exceptible contributions matter what you do. The companier will decide the outsomer its not all bad by any means, and the "term concept" and managenitif aphotos are analysiny opport, but you'll morpoint be in problem where you will do your 20th point beads to the office of the period without a goal, fluidy mendted to the interiors or receiver. If one can address and set of the period to the interiors or receiver. If one can address a what is the contribution of the contribution of the contribution of the period period and the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of the contribution of contribution

Goaltenders that hold the puck former even when you've sketted obserof the otherwee zone, power byty units that become instriction study. premark sites set has the puck of no a poor disease, hospital that you can almost always best—the the fast goes on and on. It may be great for graphic bounds and those sew to brocker, but NHL Hockey 66 is not the same for serious hardway stibinards.

WAYNE'S WORLD

Not to be confused with Bethoods's Wenc Gertaer series from the early 19th (which, in retrospect, solution) several innovations and was actually a statisfactory gene, Time-Visma Interceives Wenc Bettzer are no MELPA Aut. Saves lan't manify of the same cattler, until or its near life namespale, Genzaer is a drong statist but statis finish.



LIMAND NEW KEY IT you're litching for a shiny new pair of virtual roller skabs, NHL Hoosey IS by EA Sports has your graphic ticket-but is short on long-term gampoley.



TOE COLD Word Hover is the Stantoy Cup winner of our Worst Hodioly Sim award, with bloday graphics and equally poor gameplay.

The game has some inspired touches, with a number of pre-game and pre-season options such as custom-constructed teams, trades and a practice made it also packs the basil tale off and fighting sequences of any PC hocker game (Ne sean.)

But on the ice, everything switches to hyger-drive. It's a flurry of bodies and shoks as teams mill about in complete disarray Curious. "upts," roots" and other wats or pain buffet the audio landscape, and the whole thing begins to resemble a horizontal scrolling death match in no short order floo bad.

DEMERIT

Sustly Meril Studio's Worko Hockey 95 is someone's teisted joke, made even worse by wrapping it in packaging that minimide EA's lefride by more sophisticated NHL Hockey 95. Hock, there's oven a quote right these on the box, two other comparing the two.

Indeed, there are comparisons to be made, but in every single case, Ment's game corries up short-and in mean resolution of the shoot should be shoulded body again in recent intensity (West Orbicas's should that uply interface; continues with incorrect rule interpretation and a brilling wewing peospecifier, and entits with contributing gample) that bears no meanthilation to micrower of bodder were alread.

TEXT FOR TEXT'S SAKE

Despite the proliferation of graphic-based games, these will always be room in the marketplace for localbased aports softwere, which statistic and fantasy lovers play out "what it" situations and generally compile loads of tacks and farures.

Of the the production of holding lend garries. Lance Hallther is the most cauth, having just related a new version of the Trace competer with 1999 hears and, as sound, selected "great" terms storm 1990 to 1992. Otherwise, this this program hasn's changed much over the tast fee years, 501 with the same puzzleing manual and witned any graphical abundes. But if tower stallow more occepting and paying options when manually contesting a game than does it competition. APPA Pro Hobsers, or It test keeped modey is your thing, this is the met recommend.

ABOVE PAR

More Courses On The Fairway

BY SCOTT MAY

of is one of the few spools that lends itself incredibly well to computer structation. Accessible by stayers of every imagnitative skill level, it's small wonder gold sims are so operlar. Thinks to advances in bothmotogy and occtancelly exchange every in incredibles, this time-

hindred genre has never looked or played better.

Currently, the PC leaderboard seatures four major players. Access
Software's Lines series—Lines 388, Lines 388 CD and Lines Prio CD—15

the undirected statement clause, findings it is showing a type of oid age. Note in Microsoft Our 2, which is desemble; live incomes bit in Windows, containing most of the features show the OSS origins. Effectives clark 1961, the Sie is a sumstance in the state ones of its smooth inferiors and mapping pay worknote. Faully, the Daulis's back in Globe Natives Liberton Courting Old from Bedier Ministricties of the Ministricties of the Courting Old from Bedier Ministricties to be honescent and strong offices Statement price of the Ministricties to be honescent and strong offices Statement prices also so like the Visit See discribed statement of the Statemen

What should sim getters look for when making their first long onto the digital taiway? Many botters combute to a game's overall success, but the five melor consisterations are graphics, player interface, rectem, ourse add-on- and outprot.

PICTURE PERFECT

Thanks to Livis' prontering efforts in digitized course graphics, pholorealism is the bazz word for most new golf sims. Typically, farrways and greens are created by mapping graps (software ordin a combine gold, modeled after the timan features of the actual location. Tieses foliane.

Moxis' Simi

You might florik a fide om from Mosis, the SwiChri fide, most de nove drong the free of missister opt. Clees, dur or que. On the hostoon's SwiChri for Widness 95, stating a lot the course overleight in Missister support festered, modern and fetered), and der nice latered to om designer Potent Free I Jones Anniver promoting important in the Massis Mossistering interface, which uses mouse movement to recreate beckering and bill at lekes. A owner for bedeated from missistering missistering in the latered from the first first design missistering missistering missistering.

The game will come with three pre-designed 18 hote courses or Player with their have the ability to modify hose earting occurses or design new links from scratch, then share them with blow SenGuzenthusiasts. This is the first crusse designer since Accelated's highly successful Jean Nationaus series, and looks the in will add considerable nective whee in Music porting the scribe nective whee in Music porting them.



windows to display vertices views, strate satups, shot info, scorecards and dish distance charts

bunkers, water hazards and peripheral touches such as clouds, cart paths and static backgrounds, are then added to create a realistic environment.

The Koop had in any god guant, brough, is beinding computer and dead things with oligitated objects from London and costage and emiting it back install. Lines, ASS Goz and PGA Tous 60 and do an excitate the behavior disputation graphic elements into a univolve, continues and objects Chilly Ricease List So consistently published being that the begins and groots sometimes dain matching and impossible and published approach to look any flatting and controls. The existing contemporaries growth in guith microsoloib, but midglated perminental by the sith 16 44 HObbit published. Bold Microsoloib is sometimes and the site of the

continued prospective, with animosofy desired absorganitive renderings. Each game here also offers video by bys of each hole POPA. Then 98% if In-bys shallow excellent video over advice, providing destrict hins, bys and canded. Physics in Navarane as also good, numbed by Norman himsest Both Lives and MK Get refeate that propriet for bys, support of the Set Both Lives and KK Get refeate that propriet for bys, support of the Record Cellshow, commentage only before and as when the PR Record Cellshow, commenting only bases and as when it

SWINGING THE CLUB

In real god, at solid life in the contribution of many framps (by and solidoside moments), includingly and broken levels, in terminal protocologies moments, but don't solid limited to the solid limited by the contribution of provided withdress and as stature, ann, helpful man spin, your find success or obtain as measured by your ability to use the manded seven protocologies of solid limited by the stature of the solid or service politically and the stature of the solid limited by the solid limited politically and the solid limited by the solid limited by the solid limited that manded as solid limited by the solid limited by the solid limited that the solid limited by the solid limited by the solid limited by the solid limited by the solid limited by the solid limited by the solid limited by the solid limited by the solid limited by the solid limited solid limited by the solid limited solid limited by the solid limited solid limited solid limited solid limited solid limited solid limited solid limited solid limited solid limited solid limited solid limited solid limited solid limited solid limited solid solid limited solid solid limited solid solid limited solid so

Both PSA from 96 and review has mittine sering meters which southerstand yet and towards when muttine sering meters which southerstay deploy the prevention power and impact marks on the color calibrated gauge. These well-designed meters remove much of the lexistration from putting Lives and MS Got ruse uncatabated swring meters, making it extremely difficult to according page stroles. All games have callibra and disable "risks" has me to be all and

CG JUL



WHAT EFFECT COULD SPEEDYROM HAVE ON YOUR CD-ROM DRIVE?



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as the drive chugs along.

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assess distance to the pin. PGA Tous 56 issues this one step further, however, with its ingenious Targeting Arc System, which lets you view the proposed ball travectory prior to your shot.

Besides an imultive swing mater, a good interface also needs accessibility of options and customizable accessibles be baseds more intended to option and customizable or observables and product swine PSA flows 80 others sallers deteries, including a bettle assortioned of interactive viewing material residents, including a bettle assortioned or interactive viewing materials. Association of the some materials will be supported to the content and more options available via puil down marines at the box.

A TRUE GOLF SIMULATOR

Although all of the gold sites presented here take a sortice approach to the sport, come or more detailed from other. Neavou detailed, which is round, offerting an amening variety of playing conditions, each condition guide respects on gameting including with goest, immorphism, graded conditions, and wor but construction. Neavon as do the city game with pure simulation pay—as opposed to held'by timps acustom more than 400 access declared gainer contractions.

The rest of the pack only offers computer controlled simulated players. In this regard, PGA Roue 96 others the best leader/coard, leafuring 14 rest PGA Rour pice, including Carey Stader, Term foto and Fuzzy Zeeller, each programmed with true the characteristics and video captured swince.

HORE OPTIONS

Though at got games owns down to wheelving around a little while to suggestion can distinguish their games by including options. The Machinesh vestion of Lakes Pro CD, the cample, features keep recognition, allowing you be select cludes and shed types with voice our mands. Lives and NS Gour 2.0 also offer the ability to record got sessions, which others can lead use and connect exability. Bet makes are the

only ones in this roundup to other network and modern play.

A solid variety of game modes also breathes life into a golf sim. PGA.



to calibrated gauge to deplay optimum hiting power



large screen, an array of buttons at the bottom and pull-down menus at the top of the screen

Tous 96 leads the pack with the best assortment of garns modes, including stroke, practice, fournament, sudden death playoffs, Skins Garns, and Shoot-Out. MS Gour offers Skins scoring, but the other fries only allow adjustment of player skill levels, with no variations beyond

tests shoke play. Only Lives and AKS Goor allow you to print occreated. One of the best options his seen is the intercalle lesson found in Answers. Called the Lesson fac, this impresses settime sets players up with nine ditteren gotting challenges, describes potential problems and sociations, test you adjust your shoke accordingly, and then exhautes your performance.

AODING A FEW COURSES

Somethines, staling the same 18 holes, over and over again, can be a finite too reportfolin. It variety is the spece that bisnoss your game, look on to further than access? Lives Covernouser Courses series, the mether look or divesse poting challenges hele's the finings on bit: Sever Severice, Time Bury, Bowers, Bournel, Sources, Sources, Perus, Collecti, Don't's Massac, Ferestreet, Indeed, Parison Beach, Parison Beach, Parison Beach, Parison Beach, Parison Hall, Parisons Control Resis.

The beauty of the Access add ons is their comparitality with Lines 385, Lines 385 CD, Lines 385 Piro CD, and Miscrosoft Scur ron Wiscows (errson 1.0 or Inter). Lines 385 CD even allows you to coment the original, low res Lines courses for use with the newer creatives engine.

All the other got same come up short in the add-on category. POA Tour 96 comes with use coveres, Sighyasa Nillan RFO at Americ En receitly added Severas Rev—Scritish-style false on the Motothray coast—Inopiatily with more courses in the works. There will still a Croful's Nelwown establishes a strong enough contract to pursue the Nelwown establishes a strong enough contract to pursue and the Croful courses. The title stripes with the courses, Mediate Got Colle, co-designed by Norman and Pele Dev. and the fricting Devas CRITISH Devas of the fricting Devas CRITISH Devas of the fricting Devas CRITISH.

The availability of add on disks is a chicken and egg driemms. In a got sim tounders on the market, additional courses are a washed expense. However, the promise of additional courses can be a huge setting point in the Intal analysis, the witness are those companies who exhibit a shong little commitment to their contact, such as Access' lives consists.



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chip and Diamond's optimized drivers and inControl Tools-you'll gain a whole new perspective on speed Steelth 3D runs under Windows* 95. Windows* NT 3.51 and DOS operating systems and will be compatible with future 3D applications for Windows 95 using Microsoft* DirectX APIs Plus. it comes bundled with Interplays Descent" II and Sony's Destruction Derby". So, if you're ready to speed in three dimensions contact Diamond at http://www.diamondmm.com.and.get.everything. you need to launch into the future of 3D graphics acceleration, today



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THE AMBASSADOR OF COLF CAMES

Access Continues To Dominate The Fairway

BY SCOTT MAY

If the governors of golf had to pick an ambassactor to the sport. they couldn't do much better than Lives. Access Software's incredibly popular simulation series. It's a series that has inspired several generations of newcomers to learn the sport. Not bad for "mere" computer softwere. Well, now that everyone.

has had the chance to savor the latest in the series. Lines 386 CD. Access hiss decided to move the proverbish carrot forward, dancling this

beautiful morsel within the reach of sim golfers. If you ever needed a good reason to upgrade, the

new graphically enhanced Lines LS could be if Lites first hit the digital tarway in 1989, based on Bruce and Roper Carver's immensely popular Workp Cuss Levoersowp Gour. Hattmark features of the original Livis included wideo-captured poller arrimations. and photometric Subsecuent mystons improved the quartic display. white adding more goodles such as stereo sound effects. By by hole proviews, audio commentary and, for Mac users, voice recognition and multiplayer games via modern or network connection. Meanwhife, more than a dozen add-on course disks secured the come's position as misn-

The bitueprint for the Lives LS series (LS stands for Leopyds in Sports) is for each release to feature a new colling resort---connecte: with a 3D wirtual four of its clubhouse-along with the home course of a golf legend. The initial misase includes the twin courses of Hawaii's Kapalua Resort. along with Amold Palmer's home course of Latrobe Country Club, with a multimedia neek inside Amie's

personal office and library, employing a 16-bit version of the victual reality engine from Listnes & Kausso Moon. The program also contains extensive video interviews with Palmer and Ed Seav, his co-designer at Lahobe. The plan is to cepticate this format, septimbleing different golf legends, in future Links Tour Pursen add on disks. In time, players will not only have a solid collection of famous courses, but a virtual fibrary of golf knowledge from the best in the business.

The framework and much of the gamen by of Leas-LS have been preserved. Everything else, though, has been revemped for today's powerhouse PCs. If you have a local-bus wideo cand with at least 2 MB of RAM, the new prachics engine will offer you resolutions up to 1260x1024 in 16 million colors and a stunning 1600x1200 in 65,000 colors. Paired with a 17-inch or larger more tor, the beauty and scope of the game's onscreen real estate is absolutely breathtaking. Other new graphic detichts include vastiv improved light source technology, 3D perspective scaling, and some of

the most realistic haze and sun bleaching effects you've ever seen. The claver interface sports a sleek new look, and the bottom control panel now appears and disappears at the flick of a mouse, like the Windows 95 Taskbar. The familiar swing mater features a new look, but essentially functions the same. Up to four user-defined carners windows can be placed anywhere on the main view screen, as well as a chaft window for modern and network play. Though a DQS-based program. the came runs acceptably in Windows 95, provided you have 16 MB

RAM. Access does plan to release a native Win95 version next year. Other new features include multiple play modes—finallyt—such as Stroke Play, Match Play, Best Ball and Skins, Having trouble seeing the ball at high resolutions? Now you can either change the give! size of the ball or turn on automatic ball tracking. You can also rede-

fine system sounds and notter animations. depending on your system speed and storage space, including variable size and motion detail (15 to 30 frames nor second). As in previous versions, you can record your game and then compete against that recorded neclormance

dominance on the politing sim fairway.



VIEW TO A HILL Mittile carrect win. down leave you with no questions as to e oath of your bolf's flight

The new game enhances this teature by allowing you to also record a computer opponent. whose performance fluctuates with every replay. Another interesting new feature allows remote opponents to play the same round of colf, unlinked, then compare their final outcomes using a built-in score verification

LORIDUS GREENS The control interface coos up utility only when needed, so as not to obstruct Lives LS's If you ever thought that the dazzline 26-bit order vistors Lives series was losing its edge. then Liess LS will surely from you around. With new features and graphics that nush the envelope Access' next level of gameplay looks set to establish another period of



COMING SOON
For asset to could, yet they are used to the property of the prope





ATHLETIC BRIEFS

Alternative Games For The Sports-weary Sports Fan

BY JEFF CREEN

I you think there's more to life than baseball, lootsall, beslatibilities and booksy you may not be right, but you're certainly not alone. While these paress land to demants the computer sports some—just as they do in real life—there are always alternatives for those tred of the same old thing. We switch you not bookly's SEPPIZ.

KICK ME

Thanks to the '94 World Cup in Pasadens, U.S. intenset in second is tirely growing after decades of inditionnes. Soccer sims, too, long popular in other markets, now seem possed to cross over as well. Blactories Arts' FIFA Socois 96 is a world warring of the compe-

justicines in its 1945 associal in its a worthy member of the compaying met specific here policy moderly in the accident line, the general other size, halffully action and enough destine-missing to being hange (intellity) home. Et has represed the All miss version, a starting was such as game (ann, bromation and gat accident years) as with a game (ann, bromation and gat accident years) and difficult per being variety of the companies of some is positive globally the healt like the been known doo, your opported such not such your person of the size of the positive per some in your we globally the healt like the been known doo, your opported such not examily people on all on 5 goods by heliform.

Will Social 198, the fast intense from Indeptily 1 VII Sports dissour, his one by piles research agreeds. The 3D motion capture of both motion programs are managing matter, and the 3D0 degree field or visus, allowing yea, to make of lower field of the state of the state of the state of the prospection (including an including programs) produced produced and passes from any piley or or this state of the end cooleres. Game appropriate are reduct, with 4 data may be close from an enfeltative, furnament or cap this, white multiplayer options let you piley with up to 20 propile or a nativos.

This, the Common belos good, but grammingly-week Will Socion coast one shares, Some of the separation good contracting of our signature, why can the formation employ and the coast where the table is supply, and the coast of th

that my grandmother could have storged-



MELE WITH ME VR Social lists you view the action from the first-person perspective of any player Now when suits 6FG when you make need It?



DISCUS AMONGST YOURSELVES October Summer Graces puts an arcade spin on Olympia events like the discus.

CARRYING A TORCH

Only lazy people will be writching the Olympics this summer. Senious athletes will be plopped in front of their computers, playing Olympics style parners. So lar, we've looked at betas of two littles timed for a summer prices.

Blact, Assert & West, D.C. and Discovors from Intensive Magastaments to midel stronge with Do their, and tree a your male your way, shough the 'Event' he have elavoragines. You'll need to shocke porne for the saleti-suffring middle distance rarring, selegit through, jumping and coordination. How you diwy, them out will altest your pertomence. Will collect of entry bits cold, and the Affine Very of protecting of an extra size in the collection. This will exceeds, mile of events this gome.

Bits Hiterane's Symmey U.S. Gold yourse Sower Gwirs less you participate in 5 different events, including texts and relat years many, strong and souring. This is a more untravaled scade their year relates documentative oper on about "butter basiling" but merfoot mer an event about their strong relation and an about since through in my first etempt in the discuss I tossed it stringing in up in the air and I standed amack on its pin the air. That's about as closes to reed the says of the mile source is on the says of the says which is a says of the says group to get the me of the says and the says of the says of the says of the says of the says and the says of the says of the says of the says of the says and the says of the says of the says of the says of the says and the says of the says

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Joystick Or No Joy?

What To Do When Old Glory Just Won't Perform



maybe it's not so lowly). Joystick problems with garnes are probably the third biggest headache in games today after sound confund evaplers configurations. Yet, it's difficult to find useful Information on how to make towards work. Leth take a close look at the same port on your PC, check out its operation and my some succestions on how to fix a few of the problems von maht have.

The game port on your PC is essentialis the same design as the one that shapped with the original IBM PC nor back in 1982 Streethen bankdisks have notten

Enter and much busses, graphics have adjeath improved, sterco sound corned out of the PC: CPUs are tremendously

Lister and mice have made our fiver somewhat ower Yet the mostick ned is exentedly the same as it was recody B. years ago. Lot's take a look at this are me and are chronistic piece of technology The first point is that the research

adapter does not generate an interrupt. If von recall the finic you set up your sound card, you had to specify in interript (overally IRO 5 for Sound Blaster computablos). An internuol hamino's a way for a particular device (a smartle and, for examnick to tan the CPU on the shoulder and get its afternoon, Jursticks don't generate intermeds. Instead, jossfiels have a commore I/O address formal address 2015. Think of this address as a mathes. The same port puts information into the mal-

box and the computer picks it up But

what information actually acts out in?

The word of yours aways a the proj-

from of the posteric along one asis or the other. The most straightforward was to do this is through an analog-to-chartal converter (ADC), that would translate the analog position of the joystick to a digital signal. Unfortunately: back when the PC nursimented ADCs were expensive, so they asserted to a chooser solution. In the josstick itself are several potentiouseters. These are simply variable position resisten, much like a lands that might set the speed on a fan or the heat level of an electrie view. Most joystické have two poten-Hometers (colled "pots" for short), one for conds area

Get a good joystick, a dedicated game card and be prepared to re-calibrate early and

often. 📕 🖷

ortware Labs has just shipped Power 2 Play 2.0 (P2P). which lets you run your OOS lifes directly from Windows 3.1 or Windows 95. rether than begins to reboot P2P also shice with a CO-ROM with shanware versions of nemarikal Experites like Occur. HERETIC Service or the Town, and about 60 others, though the CD currently lacks many newer titles. P2P ran Quixe from Windows 95 wrhout a reboot, and with almost no drop in frame rate, even at higher screen sizes. Trying to run several

and we had to hard reboot. P2P will scan your hard

other never DOS titles-Future Usumrrp, FF2000, and Quer Noscar 30-through P2P grashed the system.

Power 2 Play does offer convenience for those who have prown weary of the C:\ prompt, and doesn't appear to slow graphically-intensive titles, which is impressive But it won't run all titles straight away, and you'll still need to massage more cantankerous titles manually. Its UI is fairly straightforward, though obviously designed for Windows 3.1, lacking Wandows 95's noht-mouse-click

installed games, which you can then assign to five

hat buttons, where one click launches the

drive(s) for installed games, and add them to its list of

Properties-type features, A more Win95friendly UI is in the works. At \$34.95. It. will mean less clicks to run your OOS titles, but is more of a mostly than a necessity

In the game card is a funer circuit that outputs a signal whose time christion varies, depending upon the position of the joystick. The game must continually poll the I/O address of the game card to get the duration of the signal, and hence the

position of the jostick Let me repeat the same software most continually poll the I/O address to get accumite information on the ionities powtion, meaning that valuable CPU cycles are being beened to read information on your roystick's poetion. In fact, as much as 15 percent of your computer's CPU may be exten no poling the joy tick

IF YOU CAN'T STAND THE HEAT...

chem were cards and

There's another rols. The duration of the josstick position signal changes when the speed of the computer changes. This is what the infamous jouriel, ealthration rootines are actually doing calibration the pauce card and jossifek to the speed of the computer. But wait, it gets wone. Alast

more than a few joyslick ports in sound cards, undergo a phenomenon called thermal drift. As the commuter women unthe postek signals' denotions actually chause, and this deviation is the mansource of postick drift. With really cheap name early surrecestantly have to re-eal-

hote correspiral. Of course modern Perfirm systems with lots of memory and sophisticated overlaps can't reperate even more heat, crowing more thermal driff and ... well you get the nicture Another source of difficulty are cheap joysticks, whose note and springs tend to get throughout of whick after relatively first-

Olay, so you've disputed over a himdied burls on a premum joystick with a gardien buttors or maybe only four bottons, such as the CELFRidgists Proper TO BUSINESS ILFCS. You pick up a game that extensibly supports one of these advanced controllers, only to find that you have a very expensive, two buffers tostick—the other bottom, enol add-ons and

throttle wheels draft seem to work. It's fikely that you have an older undifferefrom I/O cord that only supports a singleinvitel. Reconnect your postick to either a sound contact a declinated most it could

Then there are the speed-compensated some early Thorstmater CH Products and Advanced Cravis all offer earth that estensibly compensate for the speed of the CPU What they really do is adjust the duration of the jostick speed, and have been a boon for some elder software whose jossick metines have truthle narring on very fast enropoters. The real benefit of these cards is the use of higher quality components, which mantanees themsel doft.

Another endont of joystick problems is

poorgame design (surprise, surprise). For exemple, some cuffication contines ask you to prow a button when the possiele is in the upper-left or lower-right position Then they read the values and assume they're correct. But what if you larven't carife notion the stick inmined asympt the corner when you press a button? The result is instant ionstick chift. Some mores assume that computers will never set faster They use smallsh numbers (say, 8bit integers) to count the josstick pulsas When the user doubles or triples the computer speed defy say they make from it 486/33 to a Pretrum 1000 sucklenk the jovack doesn't work right. There have

been a rumber of curne natelies is used

for older games to solve this problem Are ignored, problems from to be with us fores er? The art of programming the game port is greated and not well understood, even among many game developers. As games move to Wirelows 95, game developers will begin using standard ways of accessing the game port. The Windows 95 Carnes Software Development Kit will even have a set of tools called Dweetlopar that lets manufacturers of sophisticated controllers add drivers to Windows 95 that allow any Directingut-enabled game to

use their controllers For today herecer, no still have to live. within the limits of the old IBM game port technology. The bust solution today is to get a good joystick, a dedicated wantcard and he prepared to re-cultivate early

and often %

Legitech seems to have scored a direct his with ld's John Romero, who endersed the new Wemor as the ideal controller for Door. The Warner as the latest addition to Logitech's family of joisticles which include the WineMan and WingMan Extreme.

What makes the Wernor different is what Locatech has SonControl, a horizontal knob located to the left of the levstick. Using the SpinControl, players can make faster turns and quickly spin a full 360°, a much-needed capability for surviving fragfests. There are plans to map Quixe's "free look" fea-

ture into Warnor's repertoire of meneuvers, but these won't be complete until Quive ships The Warner connects to a senal port, so if you've got a mouse in your first senal port and a modem in your second, you'll need to unplug

leaded, and load Warner's driver Future plans include a Plug-and-Play serial port card for Warrier and a version that connects via Intel's uscoming Universal Senal Bus (USB) Is Warner worth the fuss? We recently received a shipping version, so we'll test it and let you know what we find. The Warrior lists for \$99 For more information, contact Logitech at (800) 231-

one of them to use the SpinControl, You'll also

have to unload any DOS mouse driver you've get

7717. Dave Salvator "Green PCs"-If you have an energy-efficient PC that automatically powers down when not in use. you might deactivate the green featu while playing loystick-

enabled names. Since levelock rason is dependent on the speed of the CPU. the loyalick will go completely out of whack when the system shuts down, and will not return to pactly the same calibration when your computer comes alive again. This is particularly true if you have one of those speed-compensated game cards



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renderne features at more, and Desa-

NERSM 3D running at 800x500 VESA

mode using UniVBE 5.2 (sevently

Ouvo-where default frame save is

personal running OUNG VUnIVBE-

display mode. In Windows 95,

sansmoothle

austrol VESAvel, mode 20 (512 v 384)

Direct/Depo-based MiccoWyspicis 2 olso

The Mach Vs WinBench mumbers

were also very good overall. Compared to

reviewed in April, the Mach Vs CPU per-

formance was about nine percent faster

overall for 16-bit and 32-bit code, and disk-

CD-ROM drive, which face say will deliv-

or better overall performance, as well as

solid sequential read throughout.

the Zephyr Onys 166 MII Lowstern we

by Dave Salvator

te always easer to test Fidenn machites, because they're fast and they're designed for gaming The com-Pentrum 133 took too honors in our Ultimate Carring Machine roundup in January But the fastest just got faster now the Mach V is a Pentium 166 with all the trimmings, and for those with a serious speed iones (and deep pockets), this may be and the fac-



chronous burst L2 cache, a 2.1 CB EIDE basi-drive, an STB proplets board based on S3V Tito 64V with 2MB of EDO DRAM. Sound Bloder If with a Roland SCD-10 General MIDI daughterhoord. Princeton Carobics Ultra 17 monitor. Actoristic Research 622 socialiers (satellite/schoronfer), and Microsoft Natural leyboard There's also a CH highspeed rame card. F-lft CombatSfield and Pro Throttle The rig slups with Windows 95 pro-installed, and out of the box, it's and to so. Rebootse from Windows 95 rato MS-DOS mode, Valcon sets up the DOSSTARUBAT ffe to load real-mode

Price: \$4.888

Blaster, and mouse, BURN BARY BURN... The good news is that all this beaveduty hardware comes together to deliver

First, the liturally list o' bundled goodics. 16 MB of EDO RAM, 256 KB wil-

performance was much belier, econory in about 66 percent faster than the Orne. The two muchines had enroparable graphas performence, and the only place the CD-ROM's performance, which exme to about 25 percent slower recent than the Onse Also, its CPU issign during CD-ROM file I/O, at 54 percent, was 12 percent higher than the Omy. But looking at sequential read performance—the kind of file I/O names mustly use when loading a drivers for the CH game card, Sound new scene or level-the Much V countstenth delivered 8x (L2 MB/see) throughnot Touckless the spotty CD-ROM performance Ethop plans to use Toublast for

Performance Comparison: Falcon vs. Tente FALCON MACK V Zepeca Onex How Forces Bares CPUmerk16 328 305 9% faster CPUrrerk12 331 300 10% faster ranhics WinMark 96 (\$00x\$00x\$500 22.7 25 9% slower sk WieHzek 96 1090 857 66% faster CD-ROM WisMark 16 459 939 25% slower \$4,488 \$4,080 20% marc Venused smoothly through Pricari

The Mach Vs CEI joystick/throttle systern made for smooth navigation through all the flight stros we can, and the units are easily to-calibrated using CI Is utilities. The Pro Throttle software comes with renamed Display Doctor, see related artscoming New for many flight sim titles, and cle in this month's "READ ME"). Even in also action titles blie DUN: NUNEAL and Outs. 320/200-the Mach Videlicered 30 frames A convenient aspect of the Mach V series is that Falcon will build to order If.

for example, you want to swap out fancy spenkers and the MIDI daughterbeard for more RAAL they'll do it. And while the rig we reviewed havall the bellwand whistles. Falcon can build a "base" Mach V system Grahout \$3,500 The 166 MHz Mach V continues

Filken's incomponising commitment to making screaming pame res, but be prepered to pow up. At \$4.888 as reviewed. the Mach V is not for the faint of each But if you've got the backs, they've got the goods. Marke it's time to finally take a harmer to ve olde prev broke ... &

APPEAL: Hard once action and tlight sim afficienzados looking for leroplous overall performance. PROS: A solidly fact system all around with top-notch peripherals ady to rock out of the hor. Hands MS-005 reboot trade from Win 95. 45: Significantly more ex

sachines from maior manufact ers: somewha spetty C2-ROM performance as



very good DOS performance. The Mach

JULY 1999

How To Bake A Quake

ld Programming Gurus John Carmack And Mich Explain The Techniques Used To Create QUAKE



hard evolutionary process by programroom John Commock and Michael Abrash to enable real-time 3D graphies on home competers. The poel was lofter a true 3D world with six degrees of freedom, 3D explacs with dynamic lighting effects, 3D players, monsters and objects, and a manmum frame rate of 10-45 frames per secand From these objectives, one of the most complex and sophis-

ticated 3D envises ever to hoe down a Protient beam to evolve.

HOW'O THEY OO THAT? Impoint creating a level in any given 3D design program You apply stone textors to walls fix vertical beams, install arched dogravas, etc. You place a few hirling demons here and there, along with westoons and autmo hoses. Add some lighting, and you're ready to go

that data into a world

where you can move at high speeds, with a consistent frame rate despite varying levels of graphic complexity as you battle morniers and by to survive With the 3D rendering program 3D Studio, you could create a pice animation of this world, but it would take hours to render, and it would be totally non-interactive. How do you make this world come alive, and fit the parameters outlined above? Where do

> If you're John Carmack, you start with what you know the Binery Space Partition (BSP), down environ of Decent

"Loctroffe had DOOM up and number before I knew about BSP trees," says Cannack, "Hearned about them when I was doing WOLFENSTEIN for the Soner Nintendo, because I laid to make it go a

lot faster."

THE SWORD AND THE

SORCERER After making a

Milling with Door, it's John

Cormack is out to board

the renoramming drawn

of 3D space.

liking the knowledge samed in that project and rethinking the world in three-dimensions, John began the ordnous task of creating the Quivan ensine Mezrwhile, bepromited one of Microsoff's most-respected programmers. Michael Abush, and together they would stems for nearly 14 months, invention a hybrid approach never

before attempted. The first problem for all first-person engines is how to distill the 3D data excated by the level

designer into a localized scene. For any given frame of gameplay, that means immediate parts of the world "There's two stages," Connack says the actual drawing of the plack." Thuts where a BSP tree comes in A

BSP tree is a software tool to order all of the sectors of a virtual world (thick of a sector as an area of floor, a column, etc.). QUAR uses a number of BSP trees. Two are used for the game world, to help detection has of sight and to allow the planer to traverse the world. In addition.

each movable object has its own BSP tree. (objects) like oramo boses, but not enimet-

"It's exotenic technical stoff" Carmack achierts "A lot of people send that we confels) use BSPs for a general 3D engine, but we think they're wrong." In Doost, a single BSP tree was the key to drawing each and every frame, but things get far more complicated when you toss in the third dimension. How do you call out the armovded sectors during pamenlay? With levels averaging around 10,000 sectors, having to consider extra sectors becomes very inefficient, even with the help of a BSP tree. That amblem

occupied Cannack for several months.

focusing the ensine's affection on sust the "The determening what's visible and then

I totally believe that 3D is nothing but a mess of cheats.

> -id programmer Michael Abrash



adbouted.



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and then during one slow eathertic week-

end, he solved it. Using the world BSP data. Carmack devised a postine that top-policylated the Potentially Visible Set (PVS) of sectors To calculate a PVS, imagine standing in a spot at the center of a morn. Now just tigure out what sectors are visible from any viewing apple. For a closed mean, this isn't too hard, stoce the floor seight just be a suggle sector, and a wall another sector.

and so on.

The PC only rets into contributed calculations when you ran across a portal (a doorway, for example), which is a nonpolygon, and it is the only way to see out into other areas Through portals, you. sinorly calculate what sectors with the visible until your line of sight runs out This PVS information is calculated for

each sector in a level You only really have to do this fore-calcolotine) once for a level," said Abrosh, "or once each time you really want to see it perfeethe For development, you just don't do

this at all, you run around and it's kind of slow."

UP AND RUNNING Once the game is under-

was the Ottoo cusing takes in the PVS information for the sector that the observing and the dreebon they're looking. Nest the curine processes that data to determine the edges of the visible polygons. which are then converted into 'spans' -- properly

elimed horizontal pieces of the polygors -- that the player will see. "Frame beframe." Abrash says, "Leothrough the potentially visible set and generate the ecless, and in the nest pass, Leo

through the edges and generate the spans." As this is going on, the surfaces of the polygons are built to a memory cache. These "excita-textores" are a combination. of the texture maps which the level design-

os chose to apply to a par-Benjar sector, plus the helpting reformation, pleaned from a separate, pre-calcu-Lated Relating years. bodt, information about any objects, such as aurmo boses, is then merged into the above data All of this MICROSOFT CAN KISS Information is "a mater!"

of build Ower

MIKE ABRASH... good but. The programming talent left Microsoft to help

(serted by the distance from the viewer) Nest, as the engine constructs the final frame data the monsters and other places are duran

in, using a technique know as a-buffering, a rather "old-school" 3D technique of consname they distance of each pivel on the object before it is drawn if it's closer to you, then downt, otherwise ignore it.

As the frame is being

Lastly, are sprites are added to the mix. Otwar uses culv a few sprites most potably for the flames flickering in the wall-



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The Men Debind the Curtain

Queen's level design and nameplay will be the deciding factor in whether gamers go nuts over it, but id is truly a technology-driven company and at the heart of it all is the programming savant John Carmack.

"This is what I do." says the programmer who is funcamentally responsible for the Doow phenomena. "Programming really is the defining part of my life. Ferrars and curffriends and stuff like that-okey, that's there, they mean something, but I am a programmes I would do it for free It's just sheer luck that something that motivates me so much can also make us rich." Michael Abrash away from Microsoft.

In easy 1995, after a lone "courtship," Carmack lured "To be honest, a lot of the other companies did a big. scared double-take when they heard that I corn/riced

Finally, this frame of display information constructed in system memory is sent to your video card's display memory, to appear on the screen as a compelling, 3D acthic world. And then the process begins all over again for the next frame.

BUT WHY?

All of these complex gyrations are necessary to assure a reasonable frame Michael to come here." Carmack says. "He's a world-class talent." Alresh had been a poted author and speaker on esotatic PC programming. Before coming to id, he was also used to being the leader Instead of the follower, and he had to make peace with that before signing acts the Quar project. "Without question. John is the leader here." exec Ahrash. "He's had five years more excerience at 3D stuff than I did, he's better at this stuff than I am, and he works more than I do, so, it's pretty clear that if I wanted to get into any pissing metalas it'd he should Modesty aside, Abrash offered these parting

rate. Sure, you could create a high-res ray-casting engine, but the resulting frame rate would be unacceptable. Even more innortantly, the speed would fluctuate, slowing down in complicated weas, speeding up in simpler rooms. The PVS, by pre-calculating much of what a raw-casting engine does

on the fly, presents a continuous amount of deta to the engine, thereby you won't even notice. %

ZEN GRAPHICS If you want to know more about the nuts and botts of the Quive graphics engine, Michael Abrash's Zan of Graphics Programming has just been released in its secand edition, and contains chapters exploring the QUAX engine in death

Michael Abrash's Zan of Graphics Programming: words on the ment of Quoe: "I think, unequivocally, ISBN 1-883577-89-6 Quest is the best 3D technology that I've ever seen." Coriolis Group Books (900) 410-0197 ensoring a consistent http://www.compalis.com \$44.99

frame rate Inner-workings saids the end result is corne to be a remarkable 3D game that will surely launch a thousand immations. And even though you may have a perfunctory understanding of the game's Inner workines, if the Id Icom has done its work well.

And hes still talking to me"



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> longer, the o cather milder, the names fewer, and Fred EVOLESALIDIOS.

o the days now

He's always that www time of the yeir, especially once the clocks are moved abased. "Deelight Threwing Time" he cally it, and conviden it a monstrous. erion. Perhans, but there are yet more enonytrous crimes to be considered.

Mustler, for metance, and mustler in a most unpleasant way. Reper Biologopurder positions set some seasyabead of the present, in a time when most everyone has a computer and "decks in" mentally to the net. Our horo, lake Ornolan, brosh-mannered reporter for a most exhemetic tribloid, is on the trided award lifter known polygous ma moved 4-the "Figure" With a title luck. and some help from you, Jake mucht man-

Well, the name that started the current multimedia craza is finalsiring offspring: Myst II is tentatively planned for this fall; but if the ambibous project slides

into winter well. Rumors also abound that Broderbund is hard at work on a seguel to the popular courtroom garne In the First Degree, Like any good prosecuting attorney. however, the company isn't realing its opening arguments

age to erack the case without becoming a victim knowell

"THE BLOODY PLAY

HAS FOUR ACTS* The first two acts of REYLE vet thines up, so to social: the third act determines the identity of the Ripper, and Act IV is



CYMPRILLUS. EVE This is Esteporth's secret well in Oxiserspace. Have your tripper-finger ready, and don't be embarrassed to switch to "easy" arcade mode to get on with the advertises

the shouldown between lake and the Reporting virtual Whitechapel Respectors of who the Ripper turns out to

> > Seems that Harlan Ellison wasn't content to have an excellent game, I HAVE NO MOUTH & I MUST Screw based on his award-winning short story; he filed suit for "unpaid royalties" from Cyberdreams, the game's distributor. The irony is that with the way the retail chain works Cyberdreams probably hadn't turned a profit on the game at the time the lawsuit was filed (we're not talking sales of Windows II here follow

be, the first two acts are dways exactly the same Even much of Act III will remain the same, typicalhe the differences are in certain conversitions and visual evidence that necur assume situations but not in others. It is therefore Act III to which

you must pay the closest attention, for only here is the evidence that runpoints the Reper's identitransferred on tweet to

missit or be led raters The birts and tips that follow are for a pazzle level of moderate (the default) and a columnation combat level of case. In

some cases, a passile solution may be different if you have a different level set. Combat doesn't vary except that disposing of the ICE becomes harder as the differily level uses. Since the name Prologgie is covered nicely in the back of the mental, Lam skipping It altogether

Act I-Joke begins at the police station He'll want to talk to everyone here (three people, in fact) and supportanted Magnotta's desk, as well. It's a pity that Catherine's WAC (palm-top, all-purpose

RIPPER IS

a murder mystery set some years ahead of the present, in a time when

most everyone has a computer.

computer) isn't available, but maybe we'll careb up with it later, like in Act III Socialize of Catherine, now is a good

time to check her condition at the hospital. Not that Dr. Buston is all that encountive. but perhaps she has her masons. Farley in the Morgae has some interesting thirds to soy though harnife you won't have to look at the bodies without their sheets (one of the better features of this range is that if doesn't punder to trashy semationalism.) Let's lut the newsroom and see if

Catherine left anything that might help. Sinc enough, there's an obscure-sounding note on lake's desk. While worke at it. check her desk, too. There are probably some leads in that Rolodex file. You want a play with the crystals in her

appropriate the Why not it's apportant. after all (heh). If only you know what to do with them. Well, thereis an astrology chart on the wall, and a birthday condensione. there. That they're all extraocted, somehow. And when it's frence! out, what do you got! Award What word! Left pass on that for the moment, and go chat with Cambit Nelson at the Cafe Duclsonp.

You'll probably want to deep in on. Soan Beyffy, too, and don't overlook the magazine mekon sour way out. Then we get to the touch stuff, at the Wofford cottage. There are three puzzles to solve here, each one providing a vacuum tibe you need. (Viernam tubes-in this faturistic age? Don't think too much, just grab 'em and move on)



THE HALFEASANT FALCON You have to depend on Josy Falconetts, the Falcon, to help with Catherine in Act II. Just don't forget that he's a suspect, and dangerous besides The mase puzzle can be anneying, the

learned.

gates have to be set twice (in different pattens) to get the hall to the bottom. Watch this carefully. The clocks are tricky, they all have to be set to the same time, sort of What time! Maybe you'll see another clock elsewhere, and keep that time zone chart in mind. As for the come puzzle,

take a real good look at that placue on the There's a deck port at Wolford's, so let's me it to voit cirtual reality and a few wells.

Catherine's has ICE to defeat. If a value or able at the bottom, sowim for the jets and blast yow. Use your shield if it outs too. close. The jointal, also, is encrypted, and you won't obtain the keyword until Act III. Here we are at the Moury and a nasty

fittle prozle. Look closely at what's mucle the brackets. With a little thought you should be able to see clearly-year closebe-without are belo at all Unfortenately, you can't do auvthme with the book except haul-

it around with you Round about now you should be able to visit how Edennetti (called vimoush in the same "loev," "Elemnetti," "Falcon," "Falcon Eddie," and "Eddie." From here on, I'm ealing him "Folcon"). Twic isn't helpful but the renowned should be obvious. In the shooting

sultere the rood rurs are usually

a brown or green color, and they don't move: Bed gove are she letal, hold weapons, and have not ever. Shoot each had gov as many times as you can After you wire you can talk to Pideon in person. ending the act.

Act II-The scene begins at the besettal where you have to side shotous while Rifcon decks into Catherine Smind Dothe best you can here; Falcon will join in eventually to wrpe the ICE when it gets heavy, but you must do your part However, somean't talk to Catherine yet Instead, come back here from time to time during the Act to tell her what you've

In the meanwhile, snoop around the police station. Catherine's journal way encrypted by Magnotta, and you may find something helpful in that regard. Half comes up night away, the rest of the jour-

nel will decreet over time during this Act. The legible section holds the key to the book wait at the apartment. I'll just see that the look is a numeric one, that should be enough to get you started. Then you obtain the mystery extendation. Where does one usually do calculation? You don't know? That's news to me (min). By

the way that "X2" is "X sensored" Since you've read the journal, you know what to do with the two bees firmsmissions from these will come to from true to time during Act III, there won't be any disting this act). Enter Berton's office much the same way you got into the



I TOLD YOU ONCE, PUNK You're going to get roughed up by Magnetta (be thoritiful real VR isn't have yet), regardless of what you do. So, be sure to check out the comust detective's apertment and offer his desk at the police station.

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OVER RIVA Riva leads you through the twists and turns of the most innovative and realistic role-playing adventure ever written. "Yards of detail and depth is precisely what

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sets the Arkania games apart from the competition", says PC Gamer magazine. Shadows Over Riva is the stunning climax of the popular Realms of Arkania trilogy you have been

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I'm the Ripper! No, I'm the Rippe<u>r! No. I'm.</u>.

nere are four suspects in Reven, and there are enough tities about each to make you think that any of them might be the Ripper Well, quess what? Eventually all of the suspects will be the Pipper as a new killer is chasen randomly each time you start a new game. Theoretically, the program will keep track of the various Rippers, and select a different psycho killer for you each time. Some versions of the game, however, have a bug, and will continue to give you the same grifty party. If that happens to you, get Reven version 1.02 (available on this month's OG-ROM), which corrects this bug as well as other errors.

> palice files. Check everything there carefolly Be sure to pop down to the Monne for a little surprise At the university, you have to deal with

the bulletins. I've of them are the nobt ones Remember, source looking for on address, and don't overlook the bottom of each fiver When you get to the hangget voull nick up a little info and the password to a well The ICE on this one is assemble block muscle Title

your true with it and work. from the bottom up. Somer or later (mobably

somer) soull bear from Stephonic Unfortunately, by the time you ect there, she's become mother victim. and her body's been handed away. Now you lawe to deal with Mr Expedy in the Morene or safeer the nonfunctionne computer

The chip numbers were made as confusing

as possible (naturally), so take your time (you can't break anything if you make an error). Read the chro garde to helo you. Keen an eve on the meter to the left, each proper circuit correlated wil come one of the lines.

to rise to the top This gets you into Animal Storage, but now you have the your clock. toworsy about Well, I'm

has a little expertise in these mattery (do a bit of reading) The sample, I may add, must be very provise Clin insteractly what you need, and no

The monkey prazzle is moinly trail and enough there are no suides to the proper lever settings. aside from the maction of the monkey stelf Pain's not what you want bere. Henoria, Matters are not looking good for the good doctor, but there's

mose to come More, for example, in Fakon's searct well. The ICE here is another block proble, but alone dishift different lines. Play with it first to see how the pieces shift when you click them. As with the other block novzle, work from the bottom up. There's some very interesting reading in this well

Of course, during all this you've also been talking to neonle I may not have mentioned, and naturally Catherine, too (vou'd better havel). So eventually you'll get a cull from Nixley to use of him at the Cafe Duclump. This ends the get, and I'd advise you not to watch too closely as

trook ROUGH CUTS

Act III-This one starts with a couple of

automated sequences, first with lake being roughed up by Magnetts, and then swine Wolford's Mc from a mysterious. awassin. (The Ripped Movbe, maybe not.) The real start is in the police station. where a call comes in from Nelson It's a anod thing to follow up on The book puzzle is tricky l'Il put say

there's a certain relationship between the letter and the book titles. Take it has byline and you'll solve it. At the Wolford well, you learn about the three nerts of the weapon to use assent the Ripper You can pick them up any fine you like there's no resh Two of the wells have hostile ICE Wife they look different, both are vulnerable in the same place, the glowing germ-

on their heads. Aim for those

The third well has the most hated ourale of RIFFER a chess-like stratesy same. award the commeter, and you don't know the rules. In brief, it goes this way, Pawrs. move one square to any direction. After the first captore, a Paym changes to a Super-Payri that can capture any piece on the board. Knights cannot move unless they can take a piece exactly two sources away After a copture, or after all your pawayare taken, Knights change to "real" Knights, that can move one or two sources any direction, any time it's your move. Know rite only move one source at a true, horizontally or vertically, and only alone the back two rows of the board. I cheerfully admit to playing this one in "crsv priede" mode and you may want to

dothesime



NEEO A CONSULTATION? Or Burton's suspicious return comes from her having a letof secrets to hide, so she'll be exerve even if she isn't the Ripser You'll know more after talking to Harrieri in Act III.



CYBERMAN 2020 After you enter cyberspace at the newsroom, solve the sixing block puzzle at the Runner Archives-try working from the bottom up, then listen to the bigs of the Bunners





Stenekoep-for those who haven't started this game, or taxen't none too for with it yet, there's a ter-

rific easter eap, right at the beginning. When you're standing at the lever to open the door, gull it three times in a row. Turn around, step into the hell, and no around the corner left. About three or four walls down, on the left sale, is a name!

Pulling the switch there opens a secret passage betied you. In the passage, on a left wall as you enter is another nanel Behind that is a very powerful dagger, that will make most of the early (and even not-so-early) combats much easier. Note, however, that this weapon is available only if you have not yet gone down the stairs! Once you've entered Stoneksep proper. the dagger is lost to you (my thanks to Roe Adems). Dark Seed 2-Those who have managed to get into the back room of the Morgue (cheery place) are having a bit of difficulty in obtaining the key from around the corpse's neck. This is an instance (one of many in the came) where conversations with the right people can help a lot. The carnival is the place for the answer here-especially for seeing double and looking into the future. When you've taken care of that, getting the ary won't be a puzzle.-Scorpia

But there's more to do thurn play games with ICE. Have a chat with Catherine, for

assumed That puls you on to George Rhodes and a safe deposit her. What's the combination? Helt, I'm sure you ear think of something related to Rhodes for that one

The Berman well puzzle is something the Concentration, only here you have to uncover the same three har ende num-With how the pieces move when the puzzle resets, then get all the numbers on the board. Keen track of them, and

you should make it through here poetty quickly. Now is a good time to visit Sono Bority for a popule of reatitle protection from the Ripper He sends you on to Cain, who points you to a pair of wells. The ICE on one is an instaffine immoine possile (I did this in cosymode, too). Head left, up the left side, then work your way enabledly to the right and up where the mactine is havening. Do not

waste time here: keep moving The other well has a passie with an Egyptian motif. The vulture is the beginning, eb? The bestmine of what? It looks hard, but really, it's aweasy as ABC (even

so, you still have a lot of work to do before you obtain the answer). Anyway, enough of exherence for now, matters in the real world demand your attention, too. Magnotta's operanent,

for instance. Check the left side of the door as well as the notif. You'll also want to talk to Hansen (an three of four secrutos, this is quite impertant for determining the Report plone with a couple other things). If you haven't turned him up yet, thinle who'd know











about crooks?





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the tools of the trade behind the legend. Listen to Mr. Palmer give insights and rec-ollections about his PGA and Series PGA tours through Access Software's enclusive mulrimedia feetage. Then tre off as or appropriate digitized Arnold Palmers, who not only looks be sounds exactly like Amir, but plays with the same

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valleys and unloug native vegence For none info, cell 1-809-809-6880

And, of course, you I be speaking to the other characters here and these One of them will give you a picture of the supposed Ripper, is it real, or is it Memores? Good question. Show it to the most likely person to get a lead on

Brech Scorola et: PAGE (newfit: Scorpte's Law

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what you should do about that.

Eventually, when everything has been doze (to whatever only). Dr. Cable will call with the new that the mage of the Ripper (the graft interest is about in become clear

Nationally, it disappears just as you hotfool it into the leb, and the Ripper invites you to visit the libery and read a certain

book Do smidne? Act BV-Well void better date, if you want to win Flowever, and

in case whe've settled on the wrone suspect for otherwise fool up), I recommend saving before you deek multivour last change to doso

lake turns up in certual Whitechapel where the weapon partyrisat he merged into a whole. This is simple, just fisten to the song bries. Then it's off to the cowneds, where the four enpeels appear one at a time. When

you see the one you think is the grifly pervan elick the weapon on him or her

You'll know me the unickle of you're nebl or not I huse vorrehose correctly

Wheat A title too close for comfort. that was If you need help with an adven-

time, feel face to drop me at frie at any of myadiliesses. Until nest time, happy advertising &



Stephanie comes too late to prevent her from becoming a vichim, but don't oriose so snuch that you mass important dives















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it's too last. The government's biggest secret is loose and verice respond in a deadly game of cir and mouse with the most powerful and nithless agency in the world. Based on the nithless Follow one of above narrative poths leading to seven different endings, Choose between our fevels of plan-The first level offers a complete on-line you through the for expert pamers-

has no bines swittable. 'Virnal World'

alleres you to ship under desks. through drawers, and see the flies In the highe fectures. the restrictions of dered paths, you can explore Tex's three-dimensional world with full



Measonadow, Mea Seronal as Tex Manufay, Directed by Adrian Carr to from Swany Rove Onginal munc





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ctivision's new multi-unificon dollaradicutuse, Spickers THE CREAT CAME submerges you in the dark. world of international expiorange as a newbre CIA. oppositive. As usual, the fate of the free world lignes in the balance. and worke the would be hero assigned to poll humanity's enflecfive bycon not of the fire. First: from

your training at "The Parm," you are times into action by the twin awaysingtheir of your CIA instructor and Researe polyticam Pender Dubanda early in the game. The same intelligens exercee that predicted Dehanski's death has respect of an interrupt on the Me of the Proselent of the United States, and the big broves want

answers, fast Who shot Dubanski? And whi?

IS THAT A CAMERA IN YOUR POCKET?

In SPACEMET, you're mannersed in the tors of the exposure trade voice analysis. mare enhancement and database searches. The game's warous tools abound with 3D models infra-nal photographs, and databases of all description. You can careed no on phone calls wentnize people's me of clessfors, and penuse lists of known assessments. North doctor photos and even pop a cup in a few had gays. Most of the time, though, you're kineming from computer to computer, pourrant to program, surfacing and analeging data, and bridding computer modek of etime seenes and suspects. Each

program itself is actually pretty shallow-1.

wouldn't want to use the game's Kennedy Assessmention Tholket to solve a real assess-

nation-but as a device to present a puzzle and advance the plot, it works, The people, projects and programs all have code names and acrossors. SPECEWY abounds with Harmonicas, Brid

Songs, Eagle Stricks and Photo Does.

While most computer games get up to speed after about 10 minutes of stone placand then struggle to hold that plateau. SPCRAT's plot unfolds as you en alone The game feels a little shallow at first, but

if becomes deeper and deeper as you play. James Adams, the writer of SPICRAFT, has written an adventure that openly

The same ones much of its realistic feel toyles comparison with the works of Tom UNIDENTIFIED IMAGE COMPUTER SKETCH

TALL, DARK AND UGLY With the Mix and Malch tool, you can reconstruct the faces of suspects, then submit them for database searches.

to Olog Kalvajo, Former Major Ceneral of the KCB, who oversow the US-based counter-intelligence operations for the KCB for 12 years, and former CIA Director William Colby Both served as advisors on the game, and put in brief

GET SMART

Sincreary does something so new, so amazing that I'm still in a fizzy about it all the provies, denve directly from the plot! There are no thinly disposed suggest of Master Mind. No magte squares No.

Classy and John LeCare, to Set the tyme's story emild have made a send novel. (How many adventure games have you played recently that you can say that about?) The game effectively adds little bits and pieces, such as biographies and news articles that smooth worldn't work in a book or movie but serve to wild testure to a computer game

The game's plot is very linear with a few branchings, but not enough to make you actually ours to go back and play the come over from the beginning. For the most part, the structure is simply go to mayes. Plus, SPYCRAFT has plenty of plot location A solve provide advance to B.



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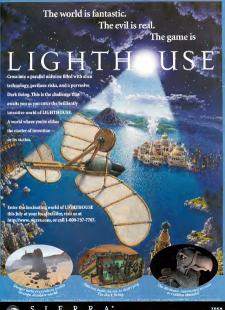
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Color SVGA graphics. 2x CO-ROM (4x recom-





SIERRA

solve puzzle, and so on Still, the story line that develops full of electine truns, heartattack ens. repeade spy, and unclear tersorism-is very satisfying.

A Sockful of Tool

guick walkthrough of your first assignment-locating the shooter in the Dubenski assassmation-will give you a feel of playing Sections. Note of the hundreds of witnesses to Dubanski's death heard a shot, so I start my investigation by

loading up a database of steelfh weapons. (On the video of the assassination, however, there is a defiother rife-life report, which will those mony people off. But titls bang is evidently a bug in the game ignore (f.) (Gose examination of the wideo taken after the assassmation reveals a peculiar pattern of bullet holes. At first I thought this was a typical game blooper, no single shot projectile would leave a pattern like that. A quick search through a CIA database of stealth weapons, however revealed a secret (lictional?) weapon that just might leave such a pottem. And it's a stert weepon, to boot. Aha! That wasn't a blooper, that was a due!

Next, I ruled up the Kennedy Assassination Toolds, which combines a 3D computer model of a some with the video. Careful inspection of the video revealed builet holes in two locations. I select



WASHINGTON (NID) - President Brooks Praises Arm

PIN A WEB Sougrating Imminik, spirt of a minigrary WWW, provides you with access to e-mail, news and the CIA's databases and tools as you hant for the killers.

SPOOK CITY

SPICINIT'S FAIV someners are wellwritten, well-shot and generally wellacted, but for the most partiare not interactive, serving mainly to deliver plotadvancing knops of exposition, You'll interact with the same priorwely through Intelnik a Web-like secret network serving. the CIA FBLNSA NRO and the whole alphabet sorp of social shops. Users of Web browsers like Netscope and Mosaic will feel night at home here.

SPICEWTS PDA browser incompanies integrated e-mail, video mail, teleconferentrue, and access to your took and toos. You also have a home page, and you can aumo forward or backward, or follow hyperlinks to other pieces and applications The PDA also features Weblink which paged with some supporting software, provides a portal to the real World Wide Web, where you can post bints and questions and elses with other temptrale spics. The PDA wvery cow to use, although it's sometimes combessome to ect somewhere on intellink (you can't exate bookmarks or keep a session history). Special Strategies and Special need dishelief and immerse you in the

game-since you're already sitting in front

of a computer remning software, it's not

that much of a stretch to magine that

you're siting in front of a different com-

poter, narring different software. SPACRAFT does suffer a few interface. warts First, you must read all the test-and thereis a lot of its susualf, rather than bearing it read aloud, and you can't change the test's typeface or size. Worse, on one of my naichnes, the text was numonerly aliened, so that sentences can

off the right side of the window. You must always start the name from CD #L saving your game is a minor name. and Activorni's funlsy sound dra on play far too softly Still, these's pathing here that should keep you away. SPECRAPT is an excellent, enough breaking adventure game, setting a new standard for plot depth and realism. When you're firmined, you'll be coper to head to Admeter and

put these skyrthing stalls to work. & PAPPEAL: Specier is a name for arrene who's over wanted to enter a en Clancy novel and push all the buttons themselves

>PROS: Great plot and clever later face immerse you in the adventure. Plenty of depth, texture and detail provide a realistic atmosphere. Every puzzle derives from the plat.

the tense pla there's not much action & few Interface blemi es make the gas





on the 30 model and the KAT plots the build's trajectory Odds on the our standing at an open window at the rod of that trajectory is the shooter.

I zoomed in on the suspected shorter's face and emolowed another program, called Mix and Match. to build up an image of the shooter's face by selecting the closest match from an assortment of face shares, skin colors, noses, eves and so forth. A database search provided me with a match, But if this out is the shooter then things are even worse than amone thought.



by ordinary trivio games? Then get your hand around Manadamers, the arco-e-millentium, interpolation trivio competition. New York of the distance of questions in cottogories roughts from to popular celture, and deliting your strongly stills in on

exiting series of events. Each "gome within a garre" provides a unique set of thallenges, from

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Looking Through The Mind's Spy

Play Head Games In An Interactive Movie That Lives Up To The Name

by Arinn Dembo

s a pamer, you learn to take the ark with a prain for maybe a metric tool of salt. Every common wants you to believe that their game is point to be the createst thing since the flushing tolet. Eventaelly, a gamer gets downneht evnical Nowaday, when I hear the buzz for a game billed as the first intersethe movie worthy of the name, that comes complete with a cool premise. state-of-the-art graphics and professional Inc-action video, port of me virs. Ticah. right. And I'm the Ouean of England."

on needle in the lunsteel, a same so good that Heap up from my seat, grab the game box, and so running down the street in my bethrobe, seresming, "Eurokal Eurokal The advancal true!" And then I rush home and nack my bars for Buckingham Palace Procent Detective a one of those games.

But every once in a white. I find a gold-

SOMEONE'S IN MY HEAD

Percinc Dienceny, is the first intervalthe move that lives up to the label. By interactive movie. I don't mean that it's an adventure game with live-action video and recorded dialog. I mean that you're in a mone where except take place in realtime, and life continues around you whether you do anything or not Camerality is wowen into a rich net of classeters and plot You begin as bein Fox. a chearplounce act who calls himself The

Pontric Plasis He's not mending by own business, making an easy living reading

comes in the form of Laina Povok. She wants him to help her 'keep an eye on theres' at her father's wake by using his revelue powers to invade the minds of her late father's friendward family.

This eig might be a piece of cake. except that Laintrand her family are a banch of rathless sharks. Laine's father was Vladimir Parok, a famous Societ researcherinto the pastronnal, and his friends and family are follow over themsches to sell his notes and papers some are wheeling and dealine with the highest builder before Vladiour's body is even cold And, specifier of bodies, one of them will

be cloud before the party's over Cameplity consists of hopping from one person's head to another, eavesdrosping, unilling soap decisions and reading. objects. When a person nawes close

individual appears in the area surrounding the movie sereen. Ene enters that person's mind by selecting the icon. Once Eric termints, he can see through that nemon's exes, hear what they hear, and can box again to any other person that passes within range Once he's in a host, there's no limit to how for he can ride them; the victun can go for blocks or even miles without shaking him, and Eric eva return to his own body at any time.

Reading objects is another matter. Engly elain twance ivan extremely viscent exectionce, touching a charged object will bit him with an mercelible montage of immes and emotions. Sometimes be conmake sense of that mess, but more often he needs other class. Ditto for reading the deep practic of another human being, As in life, the moment in which to take



LADGES, WANNA BE IN A MOVIE? While the story updaids in real-time, you've not

y a moment to tap into someone's thoughts by clicking on their bubble-face.

JM. 21 MR hard down ble SVGA video card with 1 MB RAM (2 MB BOM (4x CD recommended), digital audio Designer: Colossal

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Reader Service #: 318

poeket watches and alk handkerehiefs in a daigy night elub. One day touble

Sure, there are cheaper PC, Mac, and 300° pame controllers. But if uou're readu to oet serious, uou need the highquality, built-to-play-rough peripherals from CN Products. Aux joysticks, throttles, flight yokes, rudder pedals, and other controllers are born in the USA, and made to take the heat of any battle, race or game you throw their way. So put on your game face, get down to your computer dealer and grab the game controllers made for serious players. FilgatStick Pro [PC Mac & 300] **RightStick** CH Pedals (PC & Mac*) Pro Pedals F-16 FighterStick (FC & Mac*) F-16 CombatStick 10 FlightStick Pro Throttle [PC & Mac*] Withail Pilot Pro (PC & Mac*) THE PARTY NAMED IN irtual Pilot Trackball Pro (PC & Mac) Jetstick (PC & Mac) *********** Camecard 3 Rutomatic rce print?" Visit our web site! http://www.chproducts.com

on the chance to hop missionicine's literal, follow them any our car, save a life or read an object, you will hose your opportunity. Exests are transpiring in easil-time, at least hot or fibree things are slowys happening at once, mustly in separate mens or executopoolite eachs of town, and fair.

enthed from, and list
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toored ease of H endings but in all securtioned ease of H endings but in all securtions. En live officer of porthon; Bliste
Diamond, a farnish game of popular
these with the liggest, helded is Headleopper of them at II The stakes were high, if
he lines, En's could wind up at beaching
sheld. The decisions shell made in the
counts of the game will determine
whether his pieces on the Barke Diamond.

board are Ouecas, or worthless passess.



PSYCHEDELIC SENSATIONS The "interactive movie" tag is actually applicable in Parcinc Directive, due to the often bicarre cinematic flow of the adventure

PARTING IS SUCH SWEET SORROW to there any downside to this game? It had to find one. The production, writing and prime use some of the bad I've seem in use complete grome. The sorp is cought, as outstree, moture and stackful, and although theires, apoid deal of velence, sky not graniforms. The gamenphy'n engalestic, and the interface is easy to use with test-rate graphies and effects.

If it was boy timp finger or the case thing wong with PNCL IS DETECTION, It would be that gausspikes is no short, it full gausspikes is no short, it will gauss takes less than an hour. But succe these are so many rachings, the replay value is inswaringly high. Nevertheleas, many players will descare the contention more potential of the passe site? Di hours are up, and as adventure gaines spi, that's not long at all. Self, the 2th hourse jakes of the new the most rewarding three that I've south with a taken in morth of. Self.

APPEALS A great game for those creating a tiny adjusted like.

PROSt Very strong, very makes plot, specularly an original practice and specular information services and services are services and services are services and services and services and services are servi



Originally developed for military air combot simulators, the TransferSeat uses the StanderSeat use of the StanderSeat uses the StanderSeat uses the StanderSeat uses and hear but FEEL your simulations literally reach out and hour but FEEL your simulations literally reach out and louch your though when the StanderSeat uses the StanderSeat uses the StanderSeat uses accurately describes what standerSeat Press stating at \$15.92 s.

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Firing Blanks



They're Mean Streets, Indeed, In THE DAME WAS LOADED

aymond Chandler, erestor of Philip Marlowe and unyters and: "The average detective story is probably no worse than the average novel, but you never see the average novel. It doesn't get published. The average -or only slightly above average - detecting story does... There are even a few optimass who buy it at the full retail.

ture of a comic on the enver." Well, times have charged, but Chandlers' observation bosn't 'line. a CD-ROM rather than between the coxers of a peperback, costs \$40. instead of two, and has a pecture on the cover not of a corose but of a poets-lipped branche holding a smoking gurs but for all that, it is as mesage a mystery as Chandler

price of two dollars, because it looks so fresh and new and there is a pie-

could have imagined. CLICHÉS GALORE I don't thick there is one thing to Titl. DAVE WAS LEADED-not one character. one situation, or one wears

APPEAL: If you like your detective stories hard-heiled and familiar, this one comes with all the cliches in place, right down to the hero's fedora and trencheeat. PROS: The video segments are well-

filmed and the theme song is catchy to Bad writing, bad acting. hed game desig

talking character filling the screen. Occurrenally the died means to an

wisecrack-that you haven't seen before in a dozen private eve movies. The story poes blacthris. P.I. Scott Assect is broad by a doll named Carol Kicin to find bermissme brother, and two CDs and many saxo-

by Charles Ardai same motionless screen. Until you see this for yourself, you can't integrile how cheap

it looks This is not the only example of poor moderation. Better same designers would



TERED AND TRUE Scott Anger's world is private eye vanilla, right down to the unused Smith-Corona typowriter on the desk.

phone offs later. Anger saves the day Along the way be feed a donot to a enerupt coo, plays policy with some hoods in a speak own prostigates the theft of some diamonds flats with the sater of his dead lover, and exercises his self-flagellating sense of humor so often that you want to

put a builtet in him sest to shut him up. Carrenday comests of choosing one of a dozen locations from a map and then either huntime for class by moving the cursor amond the seven or one-finding a character by selecting topics from a list. Each location starts off with full-motion video but after the intro-the secur continups only as audio with a still photo of the extreme close-up of the character's eves in an attenual to hide the fact it's still the

have known that requiring players to seturn to Amer's office any time they ment to save or lead a game is a rotten idea and might have cought the bug that to talk to Agger's partner. And better writers would have written nametion that makes sense. When you look at your

watch and Amer was. The heat rises off the selewalk and the bankers nick their teeth and make another three percent." Hule Better jokes musht at least have made the whole thing work as a delictous-

ly cheesy gag But Dave ign't better, and it isn't delicieus. Philips made a serious attempt to produce a good hard-boiled mystery same and they felled. Chandler would have advised you to save your two dollars, and he'd have been right. &

JULY 1995



System Requirements: IBM compatible 488-33 ed), 8 MB RAM, VGA graphics, CD-ROM. Designer: Seam

Publisher: Philips Los Anneles Ch 800 883-3767 Reader Service #: 321

UNIPUTER Express 2800-228-7449













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The Lost Art

Choppers And Tanks Prepare To Enter The 3D Action Arena



mid-1996, it would probable be declared. as Doost in a tank

On the consules of course Doors was a late comes, and the art was never lost to beam with. One of its favor exprovious surfaced in 1993, when Core Desam's seniorisms believeter shoot-enoug. THENDERSTREET appeared on Sera CD. Core has since token that technology

to the nest level, and two offshoots live. found their way to PC CD-ROM: IVCs ALIS THUNDERSTRIKE: ARE ASSAULT (TO UNDUSCHIM: 2 on the 32-bit con-

soles) and U.S. Gold's STRLLSPICCE. The results are at come encouraging: and disopportting. Wrife each game sports some intriguing features, neither is entuck satisfying-though for very different reasons. Indeed, they seem like oppostesides of the same coin.

KILLER BLADES Of the two AHB

THUNDERSTREE comes much closer to note shootiste satisfaction. With all the graphic details. coabled at looks the a milbon bucks, and that buss realism. The undoleftur, testaned ternan-great rocky outcroppings, tree-covered lifflocks-white by at a fluid frame rate with no broil of the polygon underplaning (as in sw. Donard's Trees. CONTINUE.

I'm a biz fun of classy exployour ... if Visa off for rood work ... and THE NOTE RETURN has splended, metalwarnching confinentions.



sightseeing

Communications and must towers slowbelievel over and crash to the entroid. Components of destroyed vehicles soor in

seeup is like Doos, this isn't a first-person perspective game, since the dynamic camera will float and pan around the character, even more so than in Byrrus Anema Toshingen, Imagine throwing an uppercut at an enemy (a la Morras Kowski), and then watching as the camera flies up from underneath your legs, following the path of your fist and flying with it straight up into the enemy's jaw. Expect this "virtua Dogw"-pame to ship in late 1996.

Bungle, the company behind MARATHON and MARATHON 2. Is now creating original content for the PC. After they port over MARATHON 2. their PC development team will dive full-bore into creating a game that combines the genres of fighting games and Doos-style 3D shooting, with a few platformer concepts as well, to create a truly genre-busting game. It hasn't been named yet, but from what we've heard, it has us

chomping at the bit. Imagine

throwing Aldra from Virtua Esseres into a level from Doox. Add in the ability to fully interact with the environment, by picking up objects and scaling walls, and you have a game that transcends fighting and Doow-style games. The game will be entirely 3D, and the worlds, of which there will be eight, will be rendered solely with polygons. Up to six players will be supported, since Bungle is designing it specifically as a multiplayer game. Although the level

classv explosions, and THUNDER-STRIKE has splendid, metalwrenching conflagrations.

🔓 🔓 I'm a

big fan of

different directions; leaving independent trafs of smoke (All that's missing is a whiff of burning direct finel). An active enemy—and so much amount as thek on the ground—proceeds to turn you into smoke unifess you make it first.



DIVIDED THEY FALL Core's two games are opposite sides of the same coin; Transcrienner has great sights and sounds but poor atmosphere, while Secureox suffers the opposite problem

Fixing through booky fifty under the rolar ceiling to role on enemy curvay with models fee, you shart to feel that these more than a paper, this are experience. A more bought that retainers the feel in the bloked weekings, or at least the evidence of explosions, which often stays on the most feel to the things on the most feel to the desired one surface.

Core could have added one more feature the ability to control the depth to which the terrain a darwa. If respectify lound the program fifting in the slopes in also freegenized as fitted by "Three is no surer way to lift the suspension of disbellet

than to watch a game doing behind-thescenes while on the main stage. This may have been necessary to make

Duer Name 3D: Try these cheats on for size. Dute

distriff—receive ell weepons and ammunition cinterns—escerve a full investory discombolio—god mode toggle cinscotty##—warp, where the first

is the opposite, the second is the lovel discostiman—tops out daller bills when the speciator is let Cheats supplied by Gameans been happy to take a farme-rate list so that terrain wouldn't fill in as I flow over it Fortunately, this deln't happearell the firme—it mas be a fune-

prochages, but there's no

MHz Pentum, Ed have

tum of the level of actasty on a section of the map—and my disap-

pointment had little to do with the game's performance during the missions. They're very entertaining. What's disappointing is the sense of emptiness that follows completion of units on. There's it energy of the of war performance—those strikes

sense of emptiness that follows comtion of a mission. There's a terse evaluated your performance—afface strikes and you're ont—and a decountion of you've completed one of the cight short emporpris But the

game lacks a drawstring to make you feel part of a process

NUMBER OF THE ADMILLS

serve of progession and transtion. It finds you us the newest member of the commando unit. "Day Wardene." You command a tank on a 23-mission tour of thinly-disposed neal-world bot spots—ussigned by a "Charle's Augsts" The commander whose

face is Indéxa. In a given sensoria, you might hive to discoparamented dissuit, blank an entirely base or five hostages. Along the way, you can lift from rown pockets as well—mot exactly a noble entire, but a naccessary one—by dismag, over entirely for molth but no a be used to cover repairs and capitation tripgades.

back at the base.
Write it's handing out lessons,
SCELLMICES could take one from
THENDERSONE, It doesn't have that
technological classic. In fact, as far as dise-

technique of device in test, just are adiade gas, it yet device his ear site. It descrif mutitiv where you must, the besturn making this any principle (past as in the original IT income revisual), and of south as site in the principle of the principle of the sall a procede. The early cost you gift in this gase in obtained from test and harden, and the work of the principle of the past in obtained the site of the past in order of the past in obtained the site of the past in harden, and the work and and in the past in common which is the past in order of the common which is the past of the past in the common which is the past of the past in the past and, line Awart. The simple explosions have the loss likes impressive occurries make for coast like mutitative, to in a series.

For a dedicated aboot-enrup, STRILENGY K does behave a lot bloc name, allowing you to otate the tankly tracet independent of the whole's beading, and many you independent control over the right and left neads for fast handling. The final senson will have eight-player network play — again, something that might

have skilled six by into Till Kontgerrate, SN HLISHCX shot duplays a penchant for spreading features accord different locales, features that might better have been conducted into a might mean to more commercingly create the semblance of a place in one case, the unit's home local season and a microbial that a situation of the control of the context as an ideal medium that acts and the case of the control of the control of the states, and the Cill constitutes of feet contents acts, and the Cill constitutes of feet contents.

specific advice and coursel.

TANIS IN DA HOOD

And herely semething of a twist. The terribuses of "Da Wardense" all appear to be African- and Huparre-Americans who speak by your immessages afected with orientshing ("D-Rom," who after with you, opines at the order. "Ceitin' sespect from the Wardense and a green, Vlassow Yu.

gets to fearls to carn it?)

Why am I Projecting on this? Will, for a

Will, for a bounding from this painer characters, you'd think ecoupter games had
been conceived when the Anglor met the
Secons. Carnes excelly three becomes
more dedicatedly multiciribural, but I've
never seem a one that second to feather
seconding officer grown.

If it is bother the plat, well then it's different—and a centificate a great, grinting being being of the base secret—and sever gets in the way of the secret—and sever gets in the way of the secret—and sever gets in the way of the secret—and sever gets in the way of the secret half the secret half is deviced, but it is a fifty of which is early hard. White the composite commonly, be presentative self-in the self-ways to great the grows have all the tracety-according multi-class with new owelf-in tracet do before.

It's just a sharme Sun LISHICCE, wan't belter. And it's a drame those two games either in moset up at some early-large of their eration. I vespect that, together, they would have made one man does comband-stoney (IDENDLASHICCE). Sunderstein (IDENDLASHICCE). Standing back to back, they might have propped each other up. Apart, each falls down where the other weeks. And that's

no way to fight a war. %

Video Pinball Just Got a Whole Lot More Fun!

there are more period games than ever to choose from these days. Most claim regulation and offer multiple tables is all quantly might be seen important than a specinot table design. While we don't think any offer the super-level add motion of Longy Libyrisht¹, there's a lot more to great priod than bull movement, but their this excades, some probal machines last for years and others come and op in a few morths. The equality of Confact Collimans the Standard for chamiconfirsh.

table design and super-real ball movement. Now with Loony Labyninth, they've taken that standard one step further. If you're locking for a game that will keep you challenged all year, take a step up and see what

unther. If you're looking for a game that will keep you challenged all year, take a step up and see what real probal is all about. With a 90-day money back satisfaction guarantee, you've got little to lose.



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Nukin' The Competition

DUKE NUKEM Ushers In The Next Generation of 3D Action

by Peter Olafson

oke is know. The veteran of Todd Replogle's two Accesse areaders has been New 3D, and be rules the most. For action. patters, this is howen. DustAppetty much the same efficen suldier as m those early olatformers: shock of vellow heir, tank top, blue jeans, big damn gam The differences He talks. he's lost the Colie habit and he wears. trendy wasparound black sanglesses. Ob, and he's now running around in a 3D world like none other.

come: a vort of 2.75D solutterfest to which our hem less waste the local population, opens keyended doors, collects



CIKIN' IT OUT Duty has a truly interactive environment, when you kill the affects and atch their blood permanently stain the foors and wells, you'll agree.

IT'S TIME TO KICK ASS...

Never before has this genre soon it same that transports you to such a totally

immersive environment. When your shots lift home. they spatter energy blood on the walk behind them, and it will be there when your owner

back Walk through blood. and see Heavy behind bloody footprints. When your shots must they leave hollet holes to the walls - and not some peneralized notion of

bullet holes, but the holes from your particular bullets. At the end of each level. Duke down't calculate abstract ownerst. ages, but tells you how many alterny you've

actually scratched DUM's envalors know the value of secret levels as well. There's at harst one for each ephode, sometimes more, and finding them is a task that will have you. coming back to a level again and again

In the classic Doces, we more were esentially even more powerful incometions of the shotrum-sou pointed it. pulled the trigger and the abers went down DOM controlly has its share of simfor weapons. But there's also the Finnerthrower, which fires a stream of reflecting ice crystals, setting up frozen altens to be shattered with a well-placed kick from Dekes inclobrated for The Shrinker termourfly reduces all but the strongest enemies to the size of a kewpie doll.

which said leg basely smushes to puto My favorites weepons are the pipe and tripbombs, which allows on the luvery of hitting the enemy where you and The former is effectively a grenade which can be thrown and then remotely deterrated to delightful effect. The tripbomb is a TVremotio-sized box that, fastened to a wall. critits a thin red beam. Break the brown.

and anothing nearly is cooled The inventory in DUNE is an improvement over ids I brecure. It's a well tool helt



Prite: \$39.95 System Remirements: BM compatible 496-66, 8 MB RAM, VGA praphics, 2x CD-ROM drive, 25 MB hard drive space, supports Sound

Blaster competible sound cards # of Players: 1-8 Protestion: None Designer: 3DRealms Publisher: FormGen

crosshair, which comes in handy when you want to lodge a rocket in an alien's forehead. bigger and better mouseterns and activates end-of-level auto-elestruct mecha-

pisms. It sturts out in downtown 1.A. moves to mean space and then back to Planet Hollywood for the devouement. But while Decearset the stage, Describbs Scottsdale, A7 in the details in solendid fashion on 1-B00-APOGEE1 Resider Service 8: 322 almost every level.

Prepare for the Assault-We descend upon them with Fire!





Horned Rat



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which you'll call on throughout the pame The Bens you'll find and load into the belt are executed to surrouse. The setroek allows you to reach otherwise maccessible holyplaces. Night vision googles will display enemy allhonettes in inter darkness,

and, sometimes, neveal brints inserbed on walls. Boots delive the torsic effects of muck underfact, and scula ecur allows you to beauthe underwriter. If you can't use it, or open it, or otherwise interact with it, there've chance you

can just blow it up. Mirrors shatter to cesore their plywood backing 'forlets collanse in ferements, unleashing misi ecosers of blue water. Bunks disintegrate. And certifin walls can be destroyed to reveal new paths, Nicklen regions and shortcuts

use Nases 3D is a regular comucopia of references to mowes, other computer cames and recent history Hase's a sample of what awarts monular-culture vultures, and this on where to find tham

In a secret area behind the prison chapel in E1L3, you'll find a familiar-looking corose clutching its bloody throat. Quie's comment: "Himmin That's one Ocomed space marine."

Buke's Hellywood Adventur ing, "Innocent?" after you drop down the shaft. from the starting point. You'll find Duke's answer to that question in E3L7. A large 'GUILTY!' sinn (with the exclamation noint pointed in blood) can be found in a crate-filled room on your right once you clear this level's tirst key-card door. And check out the TV at the far end of the bar in E1L2 for a chopper-eve view of the write Bronco and the "low-speed chase"

supplies it, and you'll teleport into a hidden enclosure. Here you'll find the entrance to a secret level ("Freeway") and, at the enciceure's farthest reaches, a familiar figure bearing. impaled on the wall. "We meet again, Or Jones," says Oake.

Star Trok: The Next Generation

The layout of the spaceship you explore in E2L3 should look familiar A rough replica of the bridge of the starship Enterprise-complete with Ready Room (and a few non-regulation) surprises)-can be found above the main body of the ship. After you use the conveyor belt to reach the circular forward area, open the fighted pasel to the most and shoot the button brok on its left well. This opens a secret door on the left side of the room's central bub that well lead you to the turbo-lift "Firmmit" says Duke. Looks like I have the coo."

O.J. Simpson Case On E1L1, you'll find a huns billboard read2001: A Space Odyssory

familiar black, rectangular shape.

Beyond the forceheld off the arena in E2LB. you'll find a scarred rock wal. Onstroy it, and follow the corridor it concealed, and you start to hear a familiar chorus and, overqually find a

ing. Within, you'll find young master Life. strung up by his fact, a Shorier in place of his hofit saber "Now this is a Force to be recipited

stightly to your left, you'll find a largery compwith " says Duler Direke Once you emerge from the

The Empire Strikes Back On E2L7, descend the shaft in the right-hand barracks in the Crew Quarters, and enter the circular vert

bring you to the brink of a deep. Own Fonces-

He rawne in the opposite cirll, out of sight and

opposite your landing point. This will

turnels at the start of E3L4. you'll and yourself facien a black office building with a triangular sign designating it a 'Quake site." This is a replica of the Texas HO of lid Software Jump up on the ledge that fronts the building, and you'll set off an earthquake that leaves the structure in ruins "I sin't afraida no

Quale," says Duke, The Simpsons If you can find a spare

moment in your battle with the final boss in E3L9, check out the sky for a blimp advertising Homer Simpson's favorite brow. (It's spelled "Duf" instead of "Duff.") Blow it up for an extra surprise



level of the hotel and find the "L"-shaped

swimming pool. Step into the waterfall that

Indiana Joses On E3LB, take the elevator to the upper



to previously evoluted areas. The levels in DUKE are a solid move in the direction of the annuable environment—one in which only the player is a owen.

Of course, if you want more flevible levels you can always build your own with the Build editor that is included on the CD, along with a name of utilities (includine a Donistic Build converted and 40s odd sages of documentation. Also on the



A DUT The Encoethment which have exerced to use in't the only unique weapon in Durg, but it is the codest ok trazen enemies for some earth-shattering effects.

CD are the complete versions of the original Desa: NUMM and Desa: NUMM II, a raft of Appece demos and servers for Dena: follow-ups Structory Wassengard BLOOD, and 3D Realize' next-reportation

game, the QUARA-Me PROV NOT QUITE 3D

And yet, for all that, it is not perfect. Deke\3D is not true 3D, as will be more-

distely apparent from its textured 2D map. mode It's an effective simulation of 3D. with bridges, occursoes and raums, but lacks the viscend uppeal of a Firm to While the opening and closing

epivodes are consistently inspired, the middle vonce existede scens, communitiveby time in ho, out, depth and challenge. (What happened to the notion of being blown out into space by blowing up the wrong wall?)

Technically, Distar's very elean However, the rich explosions sometimes

appear in front of some background objects but behind others-and in later levels becausing the found marking garbage tocking Duke's passage

Moreover in certain respects. Dust is too close to DOOM The episode-ending confrontations with cont boxics are all set in arena-style levels. Indeed, the final one is to a seel areas -- a football stadium, complete with checife seless and snal posts

There has to be another way to do thisthe boss could nursue Dake into a section of cits built almost entircly of destroy-oble wells. Diskels took would be to assist his enemy and the detonations around him and search for the one building that the boss can't destroy This coding would have been more consistent with the interactivety of the previous levels of DUA:

And last, but not least, DULE is bound to chek entiesm that it demeans women The original shareware ventors set off a small freatmen andree when the reference "laftbach" was found embedded in the



- M CONFIGURATION

code They won't have to look that far this fine. Women here are represented as notic dancers cheede alessand asked alten captives. And lest you think Doke should somehow be excused because of his notessible role as resever and Earth saviocwell, think again. Encountering a bilani-elid dincer, his contribution to her is "Shake it, below" When he takes the

mike at a liberated radio station, his smel-PAPPEAL: Daz is for those who want to play the next level of fast, vis peral 30 action in an immersive world

ROS: The most interactive come of or and a built-in scenario-editor

ets It's not true ent of wo

30, there are some hic inconsistens in later levels

for KTTI's 'playing the breast, uh, the

One other rote on DUKE is its multiplayer mode. It is more of the fun blasting your friends in a Doss Marcu, but the levels in DUKE are much too large when playing with only a few people. You could end up spending more time looking for your friends and fess time actually shooting them. The major omblem with multiplay, though, is that you can't enter and est the multiplayer matches at will. So if you wanted to exit DUKE and change your name, or if a newcomer winted to join a

exme is necessary would have to will till everyone else quit and start a new game But, having said all that, DUKE is absolute firm. It's great deconstructing the

alien arressors into component evehalls teeth and brobs while listening to Doke's throaty bon mots. DUNE's envimoment isn't the most compelling 3D world I've seen, but it withe most felly realized: densely populated with thrus to



ors in the EGG? The women in Dies are treated orly, appearing in demearang roles or as captives, the this women in what looks like an Allens-style egg.

discover things to interact with and thross to blow to hell. Yeah, the prverife humor nets than after awhile, but it gives the game attitude and personality. There certainly is monufor improvement in DUNE, but the environment is right and the extremise is fun. So maybe nest time, we'll get a garue that arms a little bisher. Until then, I'll be shartering some alices with my boot and the trastrol Freezetherner &

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Abusive Side-Scroller

Crack Dot Com's Baby Suffers A Few Deformities

by Paul C. Schuytema

Consideral Investor platform game. I always rucutally compare é lo my favorte Sexurent Guosis That the first Season

games telested in the late 80s. Yet, for playability and believe ability. Are se falls far short of the veneza-

first dove into it. I was intermed when my after ego, Nick Vrenna, began the game breathing hearth, boldeng up and down from exhaustion. I controlled his kepy with the keyboard, but arred by uning the mouse. The dual controls were useful, sace Legald non-one warrand shoot

Off to a great start, I had high hopes for this retrogame. Such; those hopes crumbled the first time I encountered a robed

level. Honesth, I was pretty issued when I with each step, one foot was planted in thm air and the other was in front of the platform. There's just no excuse for such visual donoiness

The lat of unitarity goes on and on, from a large mining drill that pushes your character along, even though you're well above it, to switch puzzles created in such away that there is no time to logically solve them -- all you can do is stab at the keyboard and home for the best. In fact, much of the destantheurs of this game comes from the "commust the first" school of thought, requiring you to seenfice a life in order to get the needed infor-

mation to advance OHINGUS SOUNGS

On the up-side, there we a few cool throw in Annu. The digital effects are wonderful and ammous. There are luts of rifly powerups and a slew of weapons to snatching. And you can plus with up to 8 other players in a network name. In net plex some of the weaknesses of the sople-planer game fall away, but going. mano-a-mann in Apasse falls for short of the first-ocrson Deathnwich expenence. If you five side-scrafters, you're better off disting off your old Cowys, because Casel, Dot Coss's ABUSE falls far short of

even the status area \$ APPEAL: Side-scroller junkies with nothing else to play or gamers longin for a customizable console experience. PROS: Great sound effects, cool controis, and a level editor: supports net-

work play CONS: Picelate enemies and bad o design ng new here ald have been a ent game on a





Price: \$44.95 Systom

Requirements: IBM compatible 485,50 (486-66 for net play). 8 MB RAM, VGA, DOS 5.0 (Windows 95 for net play), 2x CD-ROM. supports Sound Staster-compatible sound cards.

of Players: 1 (2-8 in net play) Protection: None (CO must be in drive) Oeveloper: Crack Dot Publisher: Origin

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FOR YOUR LIFE. Asuse will appeal to side-scrolling juricles, but after the first rush you're not likely to get hooled.

hle vide-scroffing classic. In Casek Dot Com's AZUNL you're an impocent trapped ma prison, who must store a mad selectist from unleasting a deadly strustonto burnarity with nothing but your battle. amor and kner gun That, plan and simple, is the enfire plot to the lamentable

PLATFORMS REVISITED At its heart, ABUSE is a platform

scrolling game, where you're naming around blasting everything in sight in your search for noweness and the end of the

beastie The Mew-esque demon was just a blury. Belastine mess of pixels, with no and personality. The areatises not pround so frame ally that one brose at careful aimine was fuffle. More importantly through. way that the creature's choose behavior made it more of a "thing to shoot" than a firestering mobile Inshort the floring of the same was broken more times, and I

ceased to be "in" not after exo arrange. The illusion further disinterrated when I ran down a slope. No attempt was made to make it realistic. The same amount on as a flet platform man was used so that

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fighting game. Up to 3,28 of the screen's height. Innovative screen paneing, zooming, real-time scales, shedows, and special P. Interactive, animated, and

8 characters, 2 champles, and a nasty surprise. Special moves, combos resurrections, 8 humilist on: Blood sucking, claw stant



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agr.//www.swobbs.com) w.epspre1.com) Keyword APCGIII] adar Sorvice #247

Dumptruck Derby

Big RED RACING Is Even Too Juvenile For Juveniles

by Gordon Goble

tried. I really did I tried to not moself in the mindset of the young crowd at which Bio Ran Ricero w smely armed. I swore a whole bunch, flipped through an old National Geographic to eatch same skin, then belened to a measure, I rented the movie The

lerly Box: It didn't work: I still found Bic: Ran to be extremely invente - most likely too invente even for knowles.

As the name suggests, Bit: RED was neing same, backed with supposed's humorous witteness, verbal effects and visual confines throughout both the racing itself and the menu. As it turns out, the racing is chaotic repetitive and confusing. and the attempts at teens-bopper humor are tasteless, seeks and and not furney Although the idea behind Bic ROD mally

ways't all that bad, the execution lower much to be desired The idea? Well, left just say that Bio RED offers the organization to race vehieles that are not normally several courses. Hima, on courses that are literally out of



BSG WHEELS The Ireland course is an easy one, just watch out for the shoep and the bouncing trucks. Moon Venus and Mars. It could have

worked but

A REAL LEMON

The purposine stuff begins neht from the sket, with merm a feetings that seem to vibrate on the screen Thougholds moved to be way cool, most first impressome will be. They, is there something. wrong with my mormor?" The number. each menuing kesstroke will be accompamicd by one of several with such bursts. If you're lucky you'll get sproothing only manufactive knome ble. I feel ble denkin' a gallon of turpentine and pissin' on a brosh fire," while the truly blessed will enjoy the testeful sounds of breeing.

world footbloot Bac-ROD on half bad as excusplified by it's estensive sumeniar options Ande from the two doven courses and 16 vehicles, you'll be asked to choose between one player, two player split serrers. tuo phyer modem

and shopkner network modes. There's also the driving control section, where you can make your choice of steering, acceleration and broking input, analog vs. digital jossfiel; and the like. If you're really into it. you can pick one of several areado-tone "characters" in your driver, a polor scheme for his or her diving self, and

logo for your rig From there, if s on to the track, and ande from a somen hit entrople network situation, this is where bad ages to worse. IIV hard to prepose what's wrong with memg in the BiC RFD world, but it's easy to say that if a not encocling Visually if yo tine 3-Daffair, but the elements are betasimple, with off-latter vehicles and strangely testured and confusing polygo-

not terrain There's little difference between the SVCA and VCA roodes. and despite the republic simplicity of the game, it ran slow even on nov Pentium 90. On the unside both resolution and window size may be chanced on the fly

Races are three laps long on any aventrack. and they last three or four minutes. The twice the wild dros, hills and turns that are present just about everywhere Land-

action is beetie, as even rule tries to nego-

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OOS 6.0. 8 M8 RAM 2x CO.ROM drive SVGA graphics, 42 MB

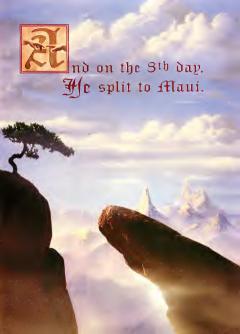
mouse; supports Sound Blaster competi-Thrustmaster steening wheel and pedals # of Players: 1 to 8 Protection: None (CD) must be in drive) Designer: Sig Red Publisher: Comark

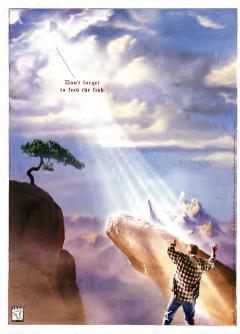
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mely stolen directly from an enisode of the television classic "Hoe-Haw" Yeech from Arche snow drifts to executs on the As you togeth through the menus.

UP AND AWAY Despite the innocuous track, the holicopter is one of the loughest vehicles to race with this world. Big rigs, snowplows, airboets. fitting and really stoold bughter, seemand beliegniers are just a few of the velocles available, while regise vermes same-







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or the Fiery Cates of Hell, zone in blocks of deadly Sins or goodly Virtues and build some roads. Soon, the dearly departed arrive in draves,



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A RED PLANET RIDE This Rhino gives a versable ride, but it sure won't float in lave.

locked vehicles will feel the wrath of water Inzunty and abrupt mountain faces, while builts will do their best to keep in the middle of their narrow funds. On paper, this all sounds pretty good, but in practice it's toughto tell what's up, what's down and which way the dam course

Address to your wors, the driving model is sloppy, urresponsive and finatraffing, even in companion to the weakest of areade games. Benging birmpers is gure common, and if the confusing exactics don't throw you miles off course. progressive damage to your vehicle might do you in Multiple viewing perspectives, country of rotating connects, hinder rather than assist. However, with a couple of trial pursion each croose the whole

thing gots profty easy, and as a final blow

to gameplay longevity, winning a race assisted committee connectition becomes almost second nature. As mentioned earher, racing against real people would improve things somewhat, but other areade driving games such as WHIPLASH and Scat AMFR also feature network play. and are infinitely better. Aside from the concept, this is one game that really can't be recommended to any age group &

APPEAL: The impature and im ture-at-heart who hanger for a wild 'n wasky driving game that's get very littio to do with known abasics. PROS: Good multiplayer game, lets of era views, a variety of vehicles at includes high-performance

motrucks and ets: Perplexi d dated graph ets, easy victo s. tasteless

und effects.





They're exactly the same, but somebody iust paid \$100,000 for the one on the right.

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Blunt Instrument

No Puzzie Power In The CrossWorin

Sunday edition of the dated me. These was the newspaper's sheer size. the incredible range of critical thought in the Times Book Review-and then, there was that destandy nozale. Elitist. obtuse, amogant, yes; but it was a turnme point for me when I finally conguered the abstruse construction, finally falfilling its all-too-ecometric bori-

he big news for players of classic parlor names is that Hasbro Interactive is working with Westwood Studios, among others, to produce new versions of their classic board games. Battussup, for example, will include a basic and advanced version (don't think about that one too much). Rest pets not merely a graphic facelift, but a new All and more playing options than before. ScruseLE will offer a "marble" board, stone and wood pieces, a tougher comouter popposent, and a customizable dictionary. These games are cetting the same royal treatment as Movorous did, which means lots of flash, cool animation, and best of all. the promise of Internet play.

can remember when the annial/sertical locant to respection With the explosion of the panning influs try it comes as no summise that the granddaddy of all puzzles should go multimedia, along with that of its excat connectitor, the LA Times.

But Pozza & Power by Contrast Software Technologies captures little of the escodeur of the NY Taxes. The proxaley are far too easy where are the adiectives like "splenchicums?", why does the accent of the announcer (avil you needed one) seemd to middle

IS THAT REALLY A WOROT WED HOSEYO'S

opcoming Scribble, you can create your own custom dictionary and continue all your

▶Berkeley Systems continues to develop its You Don't Know Jack franchise, with version 2.0 scheduled for October Promised features include improved graphics. even more zarry questions, a "High Score" list, and the possibifity of mystery celebrities. Also, Vita Doe't Know Jack: Sports should make it in time for the Autumn playoffs

American, as he points out your hits and muses? (I would have been heppy with a cubible from the illeaux.) Why is it so boring yearls? There is some vapety in the six events cockned But you'll such need Roget's Thesewas-it is included, by the way-n better solving the lame pazeles, or existing ends of your own to Coptos. Quote Pulk becomes an unfortunate pun, and Puzzle Master never lives up to its manue: Analysiske Krisa Krosa might be educational. Td rather been to the hand-they're a lot more bin.

CAUGHT IN A CROSSWORLO If you arrespely a new medium in a Invest (where, you pretty much less the strength of both the original (paper) and the new (computer), Gametek's experience in mediocre game show con-

versary to the computer, such as It oppore, is well-employed here. Awone, problem is the material mord searches are a let like Tip-Tip-Tipe, in that when you learn the secret pattern, play becomes mechanical and boring Finding solutions in CarpedVota.p is thus a let like looking for a risel in also stack into particularly

imbifugackenture same. In fatness, the production values of Correction are a lot better than PUZZI POW II. In fact, if creating professtoral convenies and word searches for

66 These computer puzzles need an old-fashioned pencil sharpener. 🖷 🖷



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TERRY COLEMAN

2 y u c d c r t = x z e 9 6 t =

Word List

BLACK & WHITE And read all over is Puzzu: Power, nowhere near the magnificence of its MY Tisses hashous



NO APPLE HERE White CrossWorld is a lat better, it still has some weind lights, often with special obvious words being left out of the oursies

your local knitting club is important to you, then ChossWord is a reasonable buy-but that's daming with faint praise, indeed What most disappoints about both ChoisWorup and Puzzu Power. is that they are from top-notch publics. tions, yet they constitute the great step backwards from such inspired fare as States CAUES (see Charles Andal's resteuin this section). It's hard to believe that for my weekly crossrend for the heavywright classistil of wood pulp, rather than Pentium &



language are ETAIONS. An easy way to remember this is the phrase "eat lons"-close enough for solving puzzles. When working word searches, most people look for common words and phrases. Try searching for weind consonant blends and you'll solve things more curckly,



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everything up in sight!"

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"Shellshock will

ock your worldw

Get the hell out of the way!

YO, way to go

Eat that sucker





[USHILI]

by Charles Ardai

provide compilation is a fracile three, like a souffe. With a slight varietion in Leutocratime and improper blending of the moredients, the tantalizing confection you were counting on can come ut a suggy mew Too many completions today are made using creaky provides exhumed from the Branteasers' Genevard and a teaspoonful of fancy you'd effects. duet is then carelessly mixed together in a CD-ROM. What comes out of the over are fallen south's that by la the dwh of the mtelligence, inversetree, and not recorned to make the batter rise But once in a while, a chef comes along who knows the difference between pull and pastey. The designer of SMAN CHALLING PLACE

such, and receive who sample his work. will be satisfied diners indeed

STUEL CASES, including word searches, peg-integras games, shiftensiffe moviles. and everyone's favorite, "Life." The wonderfel thing is that not only me there plenscreen closs look handsome: the emphasiand passy narried serie are on par with YOU DON'T KNOW Ivox, bet what mally

Each name has between 6 and 20 veriations, and while the first is usually quite bave, the 6th or 20th is guaranteed to leave years in our forchead buleing 'Eda-Cryptogram, for instance. The weker

IVE TONGUE DEPRESSOR Translating "profestoric languages" in Servic Genes requires more than sticks and stores.

deserves to be called a cryptogram at all. But don't in jumping to my conclusions. the water exty deep assfully fast and by the time sou get to number 20, you'll be decembering row after row of complete alberish, What's nifty about Sevent CASHS is that you can customize the difficults level there is no way to get stuck if a provide is too hard for you, and no need to

work through puzzles you find too cave Many of the games test visual acusts, some vocabulary and some optimization skills. Some you'll recall from IO tests of vern childhood blue, "Can this flat diagram be folded to moduce this cube?" Others seem like the businer courins of video games, l'Use the forbift to move each ball into a container balls can only be pushed, not pulled.") One of the best sames teaches translation using an inventod language where you learn vocabulary and sentence structure by example. You translate sample words and phoses like tree" and "brown bear" first and finally complex sentences like. Thant brown

bears with a stick."

Now for the dreaded question-is CHULDNOT If an educational name? Heisens, no. I refuse to give it that partieular kiss of death. Sure, designers of other paszle games that could look at it and learn a thing or two But it's a game first. last, and in between And what's most satisfering of all is its name, since it suggests

that CHALLENCE #2 is being cooked in even as we speak. Keep 'em coming, I say. If some to have a monou to keep my mentalaven samm S

APPEAL: Arrows who remembers #2 encils fondly will salivate over this red up 10 test. PROS: Extremely clever variations on familiar ouzzles and a graded difficulty scale that ranges from easy to Mensa-

CONS: Though the thunmess helps ou're still sliding ness and crossing the naigh box sho



BOY, THAT SMARTS! These are 20 different contests in

ty of fusher massles, but even the old grainers look downight snawy. The Price: 539.95 en Requirements: those of Berkeley Systems' wonderful 186-SX or higher processor, Windows 3.1 holds your attention is the clause for some scripes mand-exercises.

or Win 95, 4 MB RAM, 2 M8 hard drive space 256 color SVSA graph ics CO-ROM mouse igner: Know Ware Publisher: Smart Marblebead MA (888) 427-2469 Reader Service #: 328

bir, "LOBFORNOTTOBIC" hardy

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Where Hav You Gone. **Dizzy Dean?**

The Play's The Thing-Not The Play-By-Play

(sithe over-Impediage of collimedia and we compoter sports girriers have offered ourselves up as will ing captives to the new eratodav's games sexus so full of sound and fore often slereference nothing other than big bucks? Just what does the audio-visual gaming "pandigm shift" mean to the in crase sports-crased planer? Aside from the need for a commuter that cames a 30-year mortgage, games todas. need to be bizze, a brighter, faster, and lender-oil in an effort to make you forget the Lot big let table. Funns, though for all their cornection wall most enfort inment softwere publishers seem to be randly convening on the same ground sem The result in ery sports game that crosses are desk reminds me of-gress

Our baseball scout has informed us that Pho League Baserace 96 may not win a computer scorts pennant this year Problems in the corporate bullpen have left manager Dave Holt at odds with BM management, to the point where the game has been "severely delayed," and may not see action this year at all While there's no "official" word from Sierra, don't expect Front Page Sports Basketball for at

what?-that same last bir bit title Cranted, sports games hove built-in Irrelations based on the rules, batore and elimactors of the contests they model. Hore balls will always be a wall, and ten verdoe first down An NBA versulation has to have Michael Jordan Liking it to the born, into a profootball grate suffers without the strong arm of Brett Fixte or Jeny Rice racking up wards after the earth And whereign baseball sun without Ken-Criffes, Jr., Mickey Marrile, and the

House That Rids Bode By contast, a sole playing ourse or firstperson shorter can go just about anywhere the design team wants to take it. leaving infinitely more room to demonstate contain. Wast to have your new Dest. Neuron same on a futuration is in version of LA? Cool. Sports game designers are a lot more restricted in their

possibilities. That's not to say that there

least another year-probably even later. The decision to reverno both FRONT PAGE SPORTS BASEBALL Pao (see the Baseball coverage in this month's big sports feature) and to re-design Outpost from the ground up (see Tarry Coleman's strategy/war column last issue) left no programmers for three-pointers-hardly the backdoor play hoops fans were hoping for

get any innovation in sports garning. These unit will enough of it. How do I latow? Simple-arrantmeets

VOICE-OVER, HOLD THE MUSTARO lost about any sports title that wants to make a spirals those days features a playbasely voice-over to since things up Now this isn't a lead idea. It ties in with

the sports novintgo crave, and, if nothing che, lavas old play-by-play men out of the soun kitchers. It's mee to see former Tiners announcer Ensie Harwell immortalkerd in Mil 1298 Associates Basillace. FOR WINDOWS BROADCAST BLAST, esperially after his unexpected and eraceless damping by the Detroit club in 1994 after umpteen years beland the mike

But enough is enough. When I pick up a new sports software title, the first thing I do is seen the besto see what the designor thinks sets his game upart from the connectition. If play-by-play amouncers are a major part of the probate. I'm immediately unpicious about the game's content. The aurouncer deals done. gass Sticka forkmat Ifs getting too much like a Julia Child reope "Take use sports smoulation. Fold in a businesses announces. Half bake, and spoon the whole three onto a CD-ROM. Serves 90,000 Oh flufsvery nice." Now, don't get me wrong Having a

Announcers should

> add to the Big Show, not detract





oliw-la-play man doesn't necessarily male for a highware Byseny). Feet Windows is really quite decent. I'd reconamend if to amone who enjoys statbased suns (provided you get the latest version with the bug fises). Toxy LaReissa Brounga 3.0: 1996 Formonia a quality product that offers not one, but three impouncers Mel Allen, Lan Summors, and Hank Creenwald, from which to choose. But these products stand on their own ments. Ed extol them without the play-by-playmen. In fact, I. usually turn the announcers off, and I'd. wager that many pamers do likewise after the first few test drives. If the game to a IONEL IS WANT CENSORS ROUGHNESS 95, with its Al Michaels plan-by-plan: I turn exercitions off. The bottom line is that a good armormor can't six e a had

ANNOUNCER ALTERNATIVES

ESTITE

Perhaps the game companies could learn a lesson from television. Back in 1980. NBC med a bold experiment in sports programming-the announcer-less game. It was a late some contest between the Jets and the Dolphins that had no bearing on the placeff burst. A effect carriera followed the action, rucking on the casual the wiferest and other arobient sounds that went along with a nto football some to New York's Shee-Stadium, mainly jet planes and police gress. TV graphics undated viewers to down-arki-distance, the secre, and game statistics. There was no play-by-play manno color man, no amonuncer at all. A strange content, to be sure, but sness white? The primes exceeded all conecta-



What do you do when it's the bottom of the ninth, you're a run down with two outs and your worst hitter is standing at the plate? Well, normally, you lose. But In Tony Li Russa Baseaut, 3: 1996 Epmos, you can turn any hitter into a superhuman batting machine. Just hold

BLAST FROM THE PAST Whether it's Babe Ruth getting "some serious wood under this one" or Ozze Smith stealing second, the stats are brought to life by the immortal vivos of

From Harmel in Boscaus: For Warrows Benancies: Buss

then usual. There's a meyorge in there somewhere, for both television and name соприи счестил су

y Ball Pro Past Same Delease

What will harreon when software descriery water up, smell the toast hornmg, and realize that they've ridden the impouncer horse about as far as it will go? What's even silier is pandenne to the sound pads in the ambowing of the midtimedia tennile. How about Virtual Sports Tolk Rodo? If your team falls behind late in the name you'll be treated to votreovers of the get-a-life crowd galling for your scalp on The Falselous Speeds Balse

Or Virtual Travilled Planes-com you motivate the lise stiff for one more his game, and keep him from floridang his urine test or punching his wife? Prekyenn amerach carefully Should you come ou strong bke Vince Londfords Javsez-Give

down the M. E. G. and A keys smultapeously while your team is at bot in the "Play" or "Manage Only" mode of the action/arcade part of the game. Once invoked, the obser will retain his "Mecomon" status for the rest of the game. lacking home runs out of the park, and gloven balls all over the field. Talk about The Naturali

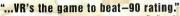
tions, comme in with a share much before Mar John Madden, or charkmatic the Par Rfix? Choose correctly and you living the name and get a new sociller contract. Make the wrong call, and you'll end up as the assistant emigrocost manual Southwest Nowhere State:

Come to think of it, with part servery and classic stadium add-ons so popular. these day, how about a Classic Amountereurodele for addud octool flason? Let's start with a digitally no mastered version of Howard Coselfs need evencount, grating on gamers' cars even from the great beyond, but telling it We it is. nonethicless. If it sells, we'll add Red Barbar, Cort Cowely, and all the other wonderful voices that once nameted the hest class of our south, but have sadle moved on to that great broadcast booth in

the sky. Finally, and not so far-fetched, expect to be using a headset before too lone. criteling your team to victory through sports sims that utilize voice recognition softmus: Of course your level ones are certain to think you're insure as you. pace up an down in front of your comnotes, drawing wires behind you, worling plays from a chart, and shouting things like "23 Zulu Right on 3," into the mike There's just two theres, couch Dun't spit the tobacco inice on the rug. and remember, the play's the thing, not the akrebe-ake \$

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GameFan Magazine

















Triple Threat

Designing And Running The Triple Option Play In FPS FOOTBALL 96

by Paul Schuytema and Coach Kelly Kane

notball is a wonderful blend of brote frace and chew-like tactical skills. Often it is the coach who controls the facticel flow of the same and the places who must passide the sweet and naisele to turn an Xward-Os drawing into a first down. Option football is slightly different, taking some of the chess moves away from the coach and into the hands of the marterback. who must make the factional decisions on the field a solit-second after the ways.

An option play is a running play that may evolve in several ways with different hall carners. This can be hard to defend against, because the play always begans exactly the same, and the defense basen way of knowing which of the two or three nations will occur until the players are alsoady underway

Day's fundamentally different than in pro football, where require plays are set before the step, and drop-back passing poses the only real guessing game for the defense With a drop-back passing play. though it is chiefly the receiver who must catch and non with the ball, making him a slightly casic larget. In an option running, placement places are involved in a synchrombod blocking attack that strambles the defense if twocoted prooch.

FROM THE COACH'S CLIPROARO:

Acan NCALDission III football coach. Fee low beau a proponent of option football-specifically nitrle option football Division III rules do not allow colleges to offer allletic selvokinhips, so the type of planer that materialists from year to year is constantly changing Option football best

accommodates the sunned of Division III players, letting a tean be competitive committee the talent wil gille as good as the atposition When the talent level between toons is equal, the option

team penerally doninsteadle nonobbou form hible option footbull's exhautages over other standard football olars

1. The obility to attack three areas of the field on determined for the defense's rese-

2 Greater involvement of planers-the OB, FB or LIB can carry the bull on arry ency plac-3 An offensive play that doesn't have to be called in response to an expected

defense became, by deseas, the triple option can take advantage of our defense. 4. Planem with assot alably can totally dominate a passe, while places with how

alistic car do will because the place



THE ULTIMATE OPTION OB Barry Sanders, as quarterback, uses the triple potion to cut upheld for an easy first down. That's Emputt Smith about to throw a block to give Sanders even more breathing room.



hallback, who's in motion before the sripp. The QB's stance here shows he's in passing mode

option play, he can choose to petch the ball to the number one detects on disciplined execution and the defensel meeting

GIMME THE BALL If the GB sort going to run in the triple

5. The play action passing passe is outstanding, because the defense has to defend the topic option with each places. leaving and three to defend the peru (or double corregge)

FRONT PACE SPORT FOOTBALL PRO 96 (and its predicessors) handles the manues of the professional run and dropback new plans very well, but exach King and I wanted to see if we could get the simulation to handle the most complicated offerse in all of football the triple coften package:

We discovered that FPS FOOTBALL PRO 96 (POOTBYLL PRO) isn't really set up to handle "after the years" decision-makmg, but with a little kladging, we did put together a workable option offense.

SPLIT-SECONO OECISIONS

To make an option play work, the quarterback must make decisions after the bell is snamed. In a triple option play, the quarterback fullback or halfback can all run with the ball. Who gets the ball is a decision broken down into two parts Assume as the quarterbook snaps the hall, he looks at the "read key." This is no





orblocked defensive player, typically the first player outside of the tackle, often a defensive end. The quarterback watches this player (actually just his shoulders, since the decision must be made almost mstantle). If the mod key to ists to the mode, indicating that he is going to try to cut off the center, the quarterbock makes decision one keep the ball and run to the hallback on each side and the follows. behind. In FOOTBALL PRO, we need to make sore that the fullbook and OR acnot directly in line with each other, or they'll hump heads as soon as the hall is ampost.

Next, we need to set up the before thespan resement. You want LIBI to en inmotion as soon as the play is set, marring to the right. I've designed it so that he sets

look at coach Kane's diagram to see what everyone is supposed to do. You will mobably find it easier to load a defense into the play editor to set up your blocking. Some trial-and-error experimentation between the play editor and pagetice field will belo you fine-tune your blocking.

Remember that the rules for professional football aun't as 'option frouds' as in the college game. In college football, you can have your offensive line senanble down the field without a negality but in the pics, an offersive Incoron can't go more than three yards downfield on a pessing play before the pass is thrown. You'll need to do some tweaking if you notice that you get offers we negatives even time you get the ball to your halfback If the marterback nurs, even If he's

in passing mode, the play is a running play, so that rafe doesn't apply. The key to making all this work is not only making same your Xward Owne in the right place, but that your ballicansons have the skills to rack up the wark. It you're running an option officiale, 90 percent of your plays will be option plays. In the retion offense liset up. I am about 60

percent topic option (the same play), 30

percent trap option (see below), and the

outside for now. If the read key is consume STATE CONT. FUT. PRINTER PR BEYOND XS AND OS The FPS FOXULL play editor offers a clear view of the players on

the field. Here, the triple option is set against a basic 4-3 defensive formation. in straight, then the OB will immediately hand off to the fellback for a norm to the

middle If the quarterback runs to the outside, a hallback is running with him, but slightly aliend Now the QB looks to the "option key," another defensive planer, generally the outernost defensive player If the ention key looks to not justide, the OB will pitch the ball to the halfback for a sideline run. If the notion key is beaching for the sidelines, then the QB will keep the ball

and cut shebtly made It is these after the snap decisions that FOOTBYLL PRO just pur't canable of hundine The solution the place assumes the role of QB and makes the decisions him- or benefit after the ball is snapped.

MAKING IT WORK IN THE GAME The two keys to exciting an action offerse are to exift the option plays and

make were that our option players (the OB. follback and buildusely) can most the challenge at hand We start by escatate a formation. The titule option formation is semenetrical. with a wrigle wide-ont on each side of the

back up in his stance as soon in he gets next to the other HB, but sou'll want to aug the ball before he gety there, so it really doesn't matter

The tricky part comes when you try to craft the afterthe-snap movement Take a look at the play editor streen

shot and the logic script to net a feel for what's pointe on My important

their movement, or the pigskin will just

As for setting up the blocking, you can

plunk off of their belinet

TRIPLE OPTION RIGHT From the coach's diplocard, this diagram shows how the play is set up when he instructs his players on the to note that field. The players with the darkened diretes are getential ball-carriers. we're forcing FOOTBALL PRO into national this plee berest were short passing plays that I almost

thinking that it've "check my dwers" new always called from an andible play. That means that you need to set your fullback up as receiver one, and LIBI (the one who goes in motion) as receiver two Remember to set each of these players up to look for a new after they're done with secesson). The OB should be a good offi-

FROM THE COACH'S CLIPBOARO:

The ideal types of players necessary to

employ the triple votion attack are the sacalled "shill bloom," (OB. HB. FB and lete with better than-arenase speed who is a great decision maker. The ability to throw

offersive line. Behind the OB, we have a



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Keesell Stewar	QB.	R	69	62	56	56	63	51	55	54	59.5
					DECEMBER OF THE PERSON NAMED IN					Willes .	-

und in adjuting plus has not one on obsolving percepulate. The followed want he epick of the both and able to me allowing from sociles. He were better if the higher than percent like speed. The halforders should be four and expedite of blocking, and realding passes; those are the players that really "stants" if we observe the experimental the receives when it is a supplied of blocking and real-like the players that really appeals not increasing? The receives when it has fast except in the able threat and people to of blocking as the above field.

Twe found that the key to marring an option offerne in FOCH PALL PINDs to make street that your quarterback at the fastest, best marring back possible It is no supplies, then, that the tops in that area is Borry Sanders. Look in the chart to check out other top NPL prospects for your

While your halfbacks should be fast, your QB should perhalist be the best playst; since accelerations most imporsant. Remember, your QB is waiting from a dead stop while both the halfback and full back will larve a head of steam before they act the lat.

Since an option play is backed together from a posting play, make user that your buffenck and furtheach lane, the best hands possible, especially since a backwards pass, if dropped, becomes a live half that the electric can pick up and mus in for a translation.

HITTING THE TURF

cetion OB position.

Once your players are ready, the burden is all yours. If you let the computer

control life play, yearll be shocked to see

your QB get harmoned to the torf every
time. If you've ready, though, you can grab
your joystek or game pad, and get ready to
tear up the delenes yourself

Reming this play well, as in real life, takes a ton of practice. Plan to log quite a few hours on the practice field before you take the play into the group. The first tip is that given the micro

scale of playing football on the PC, you probably non't be able to make the first decision (to hand to the follback or not) on the fly until you get notly good at the image classe. At first, just decide before you stop the ball

When your play is set, let your halfbeek governations, and soop the half before he gets set. Immediately extre passing mode (e.g.) the Brimon) If you decide to get the blimon if you decide to get the both of the fiftheek, don't even it yo move your (Di-sompt) up the A bothes to log it had half both mill flyou time it right, it will teak little in handled if you will for a fine-time of a second, it will be an about a first own the sound in the don't ill your wait my larger.

If you've going to inceep right, then move a succious you many the half, that he serve to stay underly of you the filled. They the B button again to select your halback as the targeted receiver. As you represent the underlying makes your develor half and you the defensive movement. If thereis morn made, then keep the half and from a CPU middle II they wilders are clear.

topine Akes to pitch the bell to your halfback and let line hear up the studentes. With practice, you should be tible to pick up a first down on nearly every run to the constale Running up the mirtels: in long has it waster. Here, we don't be out on your full has spiniting for many sees half-waste. Will proper execution, through, was obtained to also it were ge-

three to four winds per early up the middle

while keeping the defense guessing.

NOT IN THE PROS

with the desire and desire after a second of the desire after a second desire after any life second desire and the animal place with the common place with the animal place with the animal place and the animal place and the animal place and the animal place and the animal place and the animal place and the animal place and the animal place and the animal place and the animal place and the animal place animal place and affective explanes to the animal place animal place and affective explanes to the animal place animal pl

Kolfr Kwee has been the bead feetball couch of the NCAA Diminar III Manneath (II.) Fighting Seets for IZ years Witner of numerous conference champacoulings, Couch Kotte is a feveral approxier of epitum feetball.



You're coach, player and owner of an NFL team. Better kick ass if you want to protect your assets.



PHILIPS

through exhaustive research, this game has been painstakingly programmed with the exact thoughts of every NHL player







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Net Gains

FIGHTER DUEL Gets More Aces In The Hole

or the past few NULTUC'VE been tellane about ordine resources for the flight sm plot, from natches to We'll with the the senes this time around, with a look at

a bot add-on that you'll find exclusively on CCWs Web page, one that torry one of last winter's popular sinsonto a whole

DUEL PERSONALITY

Throughot finds Phylos' Factor is Doug. to be one of the most exciting head-tohead flight sims out there. There's test a

theft in the seat-of-the-earts flying organence you get in World Wir II planes that can't be duplicated in the fast jets. No radar, no lone-super missiles, no engines that can hold you in the slices with no help from the wings It's plot ys, pilot combat. and you really have to know the performance strengths-and limits-of your plane to have a hope of voccew. With a wide variety of aircraft, including Mustaux, Conany Zerrey, Softfrey, and FW-190s, Figures Desarrolla gene you'll master quickle

The pame does have one entical himtation, though, that keeps the combet from being as exoting as a could be it erpports only modern and senal play, lim-With you to one-on-one chafable. Dun't get me wong - those can be very chillenging and exciting. But in the long on

Eight

they always both down to trying to get on the other my's tail. Once you have bitm in your generalst, you can concentrate exclusively on keeping him there

Add a few more planes to the missand the action and stutestes act much more complicated Planes may sneak auto your

tail as you move in for the left. And you can fiv with awagman, who can watch your year and modulately There are all serts of other combat. tactics that come into play with multiple arcould us the slines beach. eling opponents, warmthe your counterporn when enemies move onto their talk and calling for help when they

move anto votes. Now all those tactics can come into play in FIGURE DUEL, using the Net Dust, add-on This expansion module, emated by developer SPCS (formet): lacety Software), adds network play to the World War II

human pilots on your tail makes for a whole new game.



ers to vertilate each other over the internet or LAM-with one CD



One of the coolest features of Jivar's Annuatro Dicticut, Features is the ability to thy any plane in the sim (99 models total) an network mode. This allows for some really interesting matchings, so as A-10 Warthogs vs. IVI-69 Hurriers. Unfortunately, the designers allow you to fly only a few planes in single-player mode. Unless, of course, you know the

secret code
To fly any plane in the Guick Mission mode, hold down the right Ctrl, Alt, and Shift keys as you click the Guick Mission button. Then chick Cancel, and repeat the process. The second time you enter

the screen, you'll be able to fly any

plane
The right Ctri-Alt-Shift combo also works with the Play Shigle Mission mods, allowing you to select any campaign mission individually. Extering a mission this way also lists you fly the other formay? aucraft, such as the F-

combat vim. Now up to nine players can mix if up in virtual furballs, thong are combination of Figure Dougles are unit

You won't find complex tournament scoring or even team setups here. This is a base, but extremely fruit house, free addition to hold local DECTURE DUTY. Serv. SPECS winks on PROTURED BY. 2, Serf., welling up tourns is easy and choose a par-

Spiffnesss, IR-109.
The first player to start New Deep,
the first player to start New Deep,
the reachine needs and get to be formed
the reaffirm options and starting shouldon.
There are five book securities. Figure
Cores, where exception is spaced apart
aridanally, Back to Back, which obtained
all the planes to be found; Alled vis, Aus,
which takes the arimful in formalishing.

good distance from each other, as well as Teamament and Timmament (Stane Arcoatt), which speads players and equidistant from the center of the combat

Once you enter combut, you can only out to change planes if you're shot down, if you could, or if you land on the carrier or sintop. This is to prevent plots from cheating by excepting back to the interface

when they're in danger.

As long in three are lower than zone players in flight, now then care join in insight, the art is a couple of writes from the other players, at the average attends of all the combinates. Unlike other network flight into, you only need door overself POLITIE DATE for their methods.

game, the computer cetting as severe mand.

EF2000. The computer will be set in a desert region, with combal over sand and water (If give DD, an out-fle withch has valued accuracy in the past, the benefit of the doubt and assume they won't be putfling their F225 on also raft carriers.) The improved Wadered campage angre will litt you plan your own missions, missed of striking your with listsy you with listsy you with listsy you with listsy you with listsy you with listsy you with listsy.

wappoints.
DID is also promising improved enemy AL individual wingman personalities and sales, and better wingman control. More than eight players can participate in network germes, and DID promises senal and modern sale will make it into the analysis.

referse of this one
The ANA/CS mode will drop you
into the role of tactical commander,
giving you the responsibility to vector
accraft from mission to mission as
the battle rages. Could this be Nany
Strike done mg/17?

have the CD-ROM loaded, but none of the other workstations need it.

You're not just limited to playing on the clower Novel network, either. Niet Deut, will include the showard season of the Krit software, which lets you set up net games over the Internet. We'll book at Bying sincest Krit into upon orang wate, but for now you can either kwwwlaik net for referenties.

VIEW TO A KILL

14 and Hanter

Ner DetiLandroles amother amounties feature with lots of potential the Net View models: All twomplest, Net View lets you exemitely hep in the codepic of any Net DetiLarouth as an observer than can change to any intential or external view of the ascentia and worth the actions as a pos-

sive observer. A more easifing, if perhaps a bit overbrand, me of this intrinsings is to me if to set up avistad codepit continement. Set up force computers around your seal, one in final, one behind, and one on each faller. Then use Net Mew to hole the three extra computers to wisk and may believe it your aircroff. Now you own briefly your air and sides views the old fashermed way.

fleely quite far off.

The surprise entry in all of this, though, is the DDDCosan team, who are going to fellow the modern-expense between E2000 Upgrade with Lightlang Strike, a game based on the F22 and—get this—the E3 MMACS.

MMCS.
This Windows 95 sim promises even better-locking light-sourced, lexture-mapped landscapes than



FORMULA

Your fantasy: Tearing up asphalt at over 200 MPH in an olcohal fueled, 800 harsepower road racket.

Your reality: Crawling in rush haur troffic behind o Yugo. In the left lane. With its blinker an. For the last five miles.

set tone. With its better an. For the lost five miles. Thrustmoster's Formula T2 driving system puts you in the cockpit of a dream rocing machine. Be aggressive. T2's cushioned

steering wheel won't let your hands slip while sliding through the chicones. Tame the trickies haripins with 172 brakes pedal and geer shift. On the straights, blow post the world's fastest cors when you floor 172 gas pedal. No bad directs, no gridlack, no speed limits. Grob a halmet and the your country of the property of the prope

* The Need for Speed, NASCAN Virtual Karts and World Circuit ERAND PREX

SCFeamer

THRUSTMASTER

and the second

Chopping Up The Competition

Helicopter Sims Just Got A Lot More Serious

by Denny Atkin

infilm a more 50 feet above the ground, the Londow Apaches slow to a stop behind a ndge. They quieldy pop up. espoying only the radas mounted aton their rotors. Settling. lack they suddenly unleash a fury of Hellire missiles. As the missiles approach their tornots, the changers non-back over the ridge to lock on radar. In seconds, the CIS tank inventory is reduced by eight vehicles

With its high-tech weapons avtons the ALL-64D Londow Apache is an appropriate subject for the frot sim from the Andy Hollis Origin Skurik Winks team. INNES ALL-64D LONGBOW WAS hie an inhancement easy fishelicreter sim medecewors as the Landbow tself is over Victnamerallness.



Arre's label than the fem but fanciful ATE If you've played that first sun in the lane's series, vorill be summised. at how different LONGROW'S LONGROW samulates gist one weapons system, and does so in extreme detail. This is not your father's Origin samulation, if you played STRUC COMMUNICATION Rand PACIFIC STRUL If stime to ove Orion another chance

Acres the way, prioritize targets for you. and handle countermersures. (If you're an nitra-realism unit, you can turn off his assistance, but at that print you're doing more work than a stall Near be refer their have final say on which targets to free on. though, and you're the one who selects the wrappers and pulls the triever.

WHERE THERE'S SHOKE All of the targets in Pricrity Fire Zone 2 have been destroyed, in a score early prefersoons of Desert Storm

THERE'S FIRE Target ways let you view the results of your Longbour's destructive power and medices consultion. Miconletternner He'll point out targets and threats

Sight System (ILIADDS), cosentially a suphisticated bead-up display superimposed on a small eye display mounted anyour helmet) for navigation and terecting Together these majormeets provide you with a very complete metics of the battle environment The most useful MFD display with: 'Extical Situation Display (TSD), which displays your mayocards, tarrects, and usen the benders of encounfines There's also a radar display (both ar-to-arrand ar-to-ground modes), a TADS divolay (forget Acquistion and Designation Sight, which displays corners enages of your looked tagget). and the ASE (Aircraft Sun@ability Equipment, a namthe receiver that shows around fluvats account your hely outer) The elethora of accomms alone distributed indicate the authorities. of this sim-

In your cockpit you'll find two

(MEDs) North me these and the

Integrated Helmet And Display

Multi-Function Displies

ARMED AND DANGEROUS

Your Longbow is anneal with a novemounted chain tern and an assortment of mekets and musikes. Strager missiles are used against air targets, while Holding Fin Aerial Backets (FEARs) and the ron canbe used against lightly amounted, nearby

targets. The primary punch, though, comes from the Longbow's Helline missiles.



The AH-64D is a two-sort belicoster. LONGBOW draw you into the ridors wat



and your breath comes in ragged little bursts,

keep reminding yourself:

it's only a game."



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These venatile missiles have two firme modes thrace yourself more accommoahead): Lock On Before Launch (LOBL) and Lock On After Launch (LOAL). LOBL works as you'd expect: use your TADS display to select an enemy, fire, and keep the target printed until it's toost.

If the LOAL mode combined with the Longbow radar, that makes this a truly deadly weapons watern. Approach your targets from behind cover, then emefolly poo up just high mough to do a radar wan. Once they appear on your MFD, drop back down and choose your tragets. You can look a smele target, or down a line. around agreep of targets on your TSD to cosate a Priority Fire Zone (PFZ.). Fire your missiles and watch the countdown timer. As it approaches zero, bob back up to re-lock the radar on the targets. The Helffres wff acquire their targets and home in If the first target in a PEZ-w

Lanebow promotorul films included with Loncacov, it's apparent how accurate the targeting and fidue sequences are A few features are conflictle-such as the ability to set no fire somes alone with PFZs to avoid friendly fire Lills, but for the most part the avionics and fire-control systens are modeled dead-on

COLLECTIVE SOUL

Alone with targetime information, the helmet-mounted IHADDS display also features a number of revision and aids Various modes give you the information you need for Hover Transition (moving from hover to forward flight). Croise, and Bob-Up modes. You can switch from the enclost year to a follocross II (ADDS display that lets you pan your belinet (and the TADS sensors and run with it's there's no virtual cockprt, though

It's good that ravigatives is made casy with the onypoint displays on the TADS and IHADDS, because you'll have your hands full just than the

> helicopter Levernowhay the most sophisticated flight model yet for a helicopter same, and even expericoxed virtual chooner rides. will find skimming the earth with the flight model realtern on full to be a real challenge As you near the amound the helicoster has a certain buowiney that I've not seen in other single but this isn't crough to keep you from slamming into the cound if you're flying at

high speed For potimal control. soo'll want at moremon a

jostick with a throttle whoel a senarate throttle and a set of middle pedals is even better The instiel action the beliconter's evolte control, which alters soon direction of movement. The throttle represents the collective, which afters the angle of the Longbow's rotor blacks and thus the appoint of MI and those ourdirect by them. Redder pedaly control the full rotat controlling you when you're moving, and allowing you to change direction in a hover

Flying the Lonebow in combat with full flight model realism active can be urite a challenge. Crossing along at 1000 foot at 140 knots is as curves flying your favorite front-wene son. But that's not this vehicle's element. To maintain stealth, most of your missions will be flying contour profiles (about 40 feet above the surface, at 80 knots), or, for maximum safety, NOE (Nan-Of-the-Earth) Blobs (amount 20 feet above the surface, at 50 knots). You'll have to carefully coordinate your cyclic and collective controls to maintain your speed and altitudes chimbing too both can be nearly acale adly as slavoning into the ground in these SAM-lader slaes.

The torghest maneuver to pull off is coming to a stop before a bob-up attack. When you poll the Longbow's nose up to slow down, the believeter climbs graphs try to flare too quickly and you'll climb up to 500 feet, essentially serenming, "Look at me! I'm a bull-ove!"

BOOT CAMP

All these acres in powered weapons systems and new flight controls may seem interridating, but there's no resson to despote Loncarow offers an abundance of adjustable realism settings. The flight model can be micromanaced, with toegles for collective motion, ground effect, weight effect, translational life, combines, dynamics, offinde effects, wind, and forbulence. The most useful setting for beginners as to turn off conhes, at least until NOE flying gets easier Wespons distrace, entitier realism, and TADS forextino restrictions are also adjustable. Although you can turn off most of the positism and play LONG BOW like a sambistiented areade game, the honorable afternotive as to go through the smill training semences. In six terroine missions, year'll progress from learning the instruments to basic flight and navigation, advancing to defensive countempeasures, sensors and weapons systems, and finally strategy and factics. An instructor walks you through each of these levens in a crowne make impatient, career Ameryonce. This interactive instruction is by far the best totorial in coverembet size it made the exectlent flight instruction in Purciti

UNIMETED.



GREEN ACRES The VCR controls allow you to review missions, including the classic sneaking up behind the hills at night using the Pilot's Night Vision System" routins.

rest larged with the process repositing untitall the missiles have hit or all the targets in the PFZ have been destroyed. Historical nessions are flown using the older Al I-64A Acarbo, which isn't equipped with the Longbow radar. It does have LOAL earnibility but for only one terret et a time, swine lever enicled Hellfres. It also has only one MPD display with fewer operating modes. Fly fife you're looking for an estra challenge Witching the McDonnell-Dauglas





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actual Russian army activity. Experience full tilt combat, soviet style.

Unlike other helicopter flight slms, Hind incorporates troop deployment, troop drops and pick-ups. There's even a multiplayer feature that allows for the ultimate mission: head-to-head combat with the Apache Just remember, once you get the enemy in your sites,

lock in and fire when ready. You may not get another chance.

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REVIEW . AH-64D LONGBOW

GROUNDS FOR ACTION

LONGBOW's action takes place in three types of tension jungle (Panama), desert (Kowatt and Isso), and forest (the Polish/Ukrainian border). Obvoosk: each of these requires different strategies. The



RAISING HAVOC Although your primary targets are on the ground, seep on eve out for air threats.

better than the termin in EE2000 at the same altitudes, and with for more color variety. There are plenty of hills, hongons, familiouses, and other structures to use for attack cover. Unfortunately, there's no foliage in sight. But convincing stereo sound effects help add realism to the top-

> Vehicles look superb as well with detailed texture mappens and no hint of their polygon construction. You'll encounter a wide selection of air and exound vehicles. including the Mi-24 Hind, Mr-28 Flavor, and Ka-50 Holum helicopters, tanks, trucks, and amnored personnel carriers; and scemingly every anti-arceaft vehicle in modern service. As you'd exect, a reference screen offers full details on each vehicle from the various Jave's publications

OROERS, SIR

Missions are generally of three typesscarch and distany, does stake and except You may be tasked with taking out air defenses around an airfield before troppcarrying C-190s land in one mysion, or escorting Blackhawks on a rescue mission

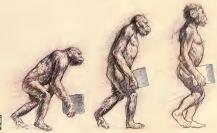
to pick up a stranded SEAL team. LONGBOW offers an instant action. mode, single missions, and a campaign. There are also 12 historical missions. based on actual AH-64A oporations in Operation hast Cause in Panerna and The single mission generator lets you

Operation Desert Storm.

define characteristics, such as weather, time of day, and terrain, and then it smdomly picks an appropriate mission. There are hundreds of possible mission sceriarios, and even if you do get a repeat ed mission, the enemy doesn't always react the same way each time

Redundancy shouldn't be a problem here: The campaign features branching missons, so you have a feeling that your

THE EVOLUTION OF CIVILIZATION



actions do affect what's come on around you. Video interludes add to the tradity. providing news generits of the action, as well as more personal clins such as your CO bestowing promotions

ONE KITCHEN SINK, MILSPEC

As Don Pardo is fond of saving, that's notall. Lovenow features a flight recorder, a welcome feature that's been missine from too many recent sims. You won't find fancy editing features here, but you can play back your missions at normal or high speed, and jump in and take over at new point. This is great for watching your tareets brine destroyed, and for tumping back in the cockpit just before a unior screw-up to try to complete the mission. The second chance is good to have, since LONGROW keeps track of your pilot).

progress, promotions and medals Fully configurable controls are another nice touch. You can reman keyboard fonetions and save your custom keymaps, LONGROW even Includes keymaps that

match the command layouts of CUNSHIP 2000 and Africate. Nearly anything else you might want to adjust in the gameflight model, exachse detail, weather, enemy intelligence - is configurable

There's very little to complain about here. Multiplayer support is correctly AWOL but Hollis and from plan an addon later this year that will provide network and modern play. Some might want to fly the CP/C position, but that's really akin to being back-scater in an F-14; the multi-

And of enuse, the total lack of treclines takes away attack opportunities As with all sins, the hardware demands are records, and the 97 MB needed to play with full terrain detail neight be problettive for some. Luckib: 68 MB and 36 MB installs. me available as well-and you can back down to one of the smaller footprints temporarly

player add-on will likely add that position.

If you need hard disk-space without having to reinstall the game. The game has a loware mode, but you'll really need a local buy DX4 system to get a smooth frame rate

Longstow truly is the E4LCON of helicopter sines, setting new standards for realism and accuracy. Despite it's authenticity. transing mode make it one of the most

the adjustable realism centors and smeath accessible authentic strus yet. Hofbs and term have made this a game beginners can emov, without insulting their intelligence Hopefully other developers - heliconter and food-wing sim affa: - will use this as a model for future simulations &

APPEAL: Flight sim fans of all in pilots locking for a good starter. OS: Accurate, accessible, attr tive, and action-packed. The bench

will have to wait





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Robots Redux

Graphic Facelift Aside. This Is Your Father's EARTHSIEGE

by Martin Cirulis

ne of the lit de pleasures that I used to communer опотироне the box. hunkering down on the couch with the documenta tion, and figuring out what was what -- all before booting the game. Even in this acc of skyrrey triumines on software, you can usually depend on a simulation to provide you with a tome of some kind-expectativ sci-

ence fetion suos, which

need to set the scene in order for the playor to hold their disbelief and get into things. Imagine my surprise when I opened EARTH SPECE 2 (ES2), only to discover that some bright boy from Siena had decided to do aww with paper documentation. It's all on the CD, with all the adventore and fascination of a Windows heloffe.



FIRE FIGHT No shaftered polygons here—your Cybrid foes literally blow their tops when destroyed I won't be, this little display of profit never need a wast button" School of

eptimization out me into a less than impartial mood, and I went too this come lesowing it would have to be pretty bloody good to get me to like it. Summanely enough, it was Barely

OARK SIDE OF THE MOON As is the case with most secuely the had give you

> thought you perf. youy last time are back, badder than ever in the original EVRITS/FCL YOU were fighting for the lost rown of humanity on a devertated Earth, against the secritargly unstop-

pable Cybrids These niant litter robots were led by an end Al. Promethers, who was obviously built in

the 'Nath, we'll

Engineering, but in the end you were finally able to shot it all down with the help of your own giant Meelts (cops, I mean giant 'HERCs'). Or so you thought.

It seems Promethers had a little vacuone-front property up on the far side of the Moon, and that's where he and his tin-earn cohurts have been lurking, building on their Cylind numbers ontil they are ready to come back down and leek our monkey burns back into the trees. Lucky for us Prometheus seems to know nothing about physics he could have saved a benefit on HERCs and just pelted us with 100-meter moon rocks until we were nothing but MILEANS at the bottom of enters

Regardless of the mucho illogic of the Cybrids, the long and the short of it is that you have another fight on your bands so. It's back into the brooker for more video. beefings from good Of Ceneral Century. who still comes across more ble your dotty incle Mitch than an inspiring milbtary penius Fortunately for es all, your



NICE LEGS Tedure-mapped HERCs and miling terrain make this me's play sequences look nearly as good as the video intro,

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reflexes and wits count more than your CO. and you'll have more than 50 missions to prove it.

BLOOD N' RIVETS

ESZ's expresslav is essentially unchanged from the original. You have the standard mission types - Assentt Recon, and so on - and a squad to follow you through them. There have been some welcome improvements to the control system. While still tricky to get the hone of users of multi-button toysticks will find this EARTHS/ECE a bit easier to handle. You have the responsibility for repairing and building new HERCs and weapons systems (including a simply modeled aircraft) from the scrops which are seavenged from Cybrid wreckage. This logistic aspect is by far the most disfinguishing feature of the game, adding a welcome strategic facet to this fast-action

Most of ES2's changes have been m the graphics engine. This game is as close as I have seen to the process of playing a sim with the same level of graphic detail.

Keeping Those Cons Kicked

In combat you should always stay with your sound-

they're reasonably amort, and they fight hard. Always com-

and back up and let them take the heat off you. Most fights

charge, so be sure to reduce your speed to half under these

conditions; if will keep you moving white allowing you, usu-

Speaking of salvage, always aim to build heaver HERCs

as soon as possible. Most missions don't require fast units.

recordless of what the bristing says, and soon you will have

Lasers and Autocarnons seem to have been improved

Autocannons as scon as possible—they make the perfect

accessory for the HERC who has everything. Most HERCs

are worth building and, though I have some doubts about

the Raptor II, the important thing is to get your squaddles

out of those OutLaws as soon as possible

somewhat, so arm up with 5GW lasers and 100 MM.

your hands on the Turbo god that turns even the heavest

mand them to fire at will, and if you get into trouble, try

become turning dues if the Cybrids survive their initial

afty to turn inside your more frantic conception. Finally, HERC legs are very big targets, and it almost always pays to aim low it's the fastest way to take down a Cybrid, and it

of the Earth is at stolen.

yields the most salvage

HERC into a twinkletoes

survival tricks of Euro-Scor 2 are self-evident.

out it never hurts to reinforce factics when the tate



HERC. YOU LEAN Damaged HERCs treter on one lea before graffyingly crashing on their sides.

as the opening astituations. Close up, with detail cooked to maintain the LIERCs. look traly incredible, and the destruction sequences are amazing. Cone is the usual explosion of polygons we are used to seeing in climt robot games. Instead we're treated to machines decapitated by humfic flaming blass, tectering on one legbefore crashing forward or onto their sides. It's a real scort to see these emergate effects embedded smoothly into a sign. and there's enough variety of them that it takes along time for one to become blost about them.

The termin is also morewed with a rolling bill look, requirescent of Macro CAUNT technology While if built as radical or striking without found in Taxas. Nova and it lacks trees fligness Cybrids stally heted doesi, it's a vast improvement. over the old weston's tableton with anilygons-strews-about effect, and it is varied crough that players can use the terrain to their advantage, at least to a limited despec

LOOKS GREAT, . . LESS FILLING The real problem with ES2 is the same one that political prodits often jabber about character Tiv as it might, this game never carrie loses its clone wrocer. These is very little "feel" to this game, and many will note that for all the great impacts. there is nothing that will leave a lasting repression or honger for EarthSiege 3. This lack of character is exacerbated by the lack of a printed manual which leaves you feeling like you've bought a console game. Other small errors, like viders, that

sometimes don't agree with the actual mession binef, do nothing to nive one's morale

The missions also have a console game feel to them, in that they seem almost too caper to please. Most missions are over in less than ten minutes, and most of the battles take place within a lalometer of your base. While I'm not a big fan of endless treks through the desert, there must have been a way to amange these battles that wouldn't feel so claustrophobic

Civen these seeming attempts to extente the Nintendo seneration threes still an ergosuble, great-looking SF sim-Of energe the visuals are not without a price, and I wouldn't really recommend.

this game to any but the Pentium-blessed. Science fetion fans may find things a hitle empty for their tastes, but anybody who loves good-looking action games, or who per can't get enough gent-robot combat, should definitely emoder pick-

log up a copy of Ewon Succe 2 Resurdies of the duswheels, it will bely to tide you over until Micci (Wantion 3, But before you go off for a few hours of kicking the care, by and do one thing for the good of computer gamang-write an angrynote to Stems and let them know that online manuals are not a trend we wint to see continue. We can only hope they'll blame this idea on the Cybrids and on back to giving us our money's worth. And if they're concerned about trees, they should just wrap the distribund erse and usumual in plastic, and do away with the her prefess double-walled has \$

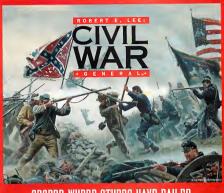
PEAL: Micrifferior fars looking for new experiences, and who are less concerned about clars then blowing

up tie caes. PROS: Enst-fooking clean robot game on the market, and the logisti

cal aspect is a welcome addition to the arren. : Nethine much to distinquish the nameplay, and without a manual you

game.





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MicroProse Malaise

Does The End Of The Spectrum HoloByte Brand Signal The End Of MicroProse?



started looking for other jobs. Even after visits by top Spectrum Hololyte exers-Ollows Leate and Steve Bace, the atmosphese at Hant Valley recognized arsoffed Employees with lengths terrino eckeyed for position to lowe, sureding the referre. "I don't want to be the last one and a brobin, to turn out the helpts."

WAS IT A CONSPIRACY?

Spectrum Chairman Cilman Louis looks that he has no intention of unalizaengine reast experienced divivers of developers. Then the en-founder of the company went on to explain that he had

Red Alert a COMMAND AND Conquen-style "what-if" game where Stalin takes on the Allies after WWII (wouldn't Patton love this O, was originally slated as a hree-player game: two Allied and one Soviet. Now, however, it appears that the second Allied role may only be available through an add-on disk, if at all.

made a nektake when Socotorm Holobyte armitted MicroPiene, "We should never have treated the unityas severate boards. It made the wrong statement." To counterast this feeling of separateriess and discrimination, the company announced at press time that all products will now be shapped under the MicroPose brand. Since three of the company's four business units (Marsland, Texas, and the UK) nowship under the MicroProse label, it only makes sense to unify all products under the strongsst brand. Spectron's exces large it will also send a message to the three units doing. haviness as MicroPrese that the plan is to

keep them around WHAT OF RUMORS OF

MARKETING FAVORITISM? These may have been some in the past, but Spectrum's marketing department claims that Civ II's relative inswellability viscous Time Corn was not due to extra effort on behalf of the latter Rather. they claim that a suister marketing dynamic shaped the disparity. Retail stores now use a medianism called the

> In case you're wondering where all those ex-MicroProse simulations designers ended up several of them have migrated to the new east-coast branch of Origin's "Skunk Works" in Maryland, where renowned flight sim designer Andy Holls & Co. plan on developing state-of-theart sims.

Reserve Last" to extend to their initial onlesses needs. On Il's reserve list was one-lifth the visc of Top Gun's and onetenth the size of MASTER OF ORIGIN 2. Spectrum cites efforts at promotion and can point to specific references in financulturalists reports onling that Civ II represented to be their of bit, but the stores didn't order. Even when Civ II began to sell extremely well (one chain sold over 1500 copies in a smale day), the reorders were relatively slow (due to reasons sited in Johnny Wilson's editorial in the line issue). Given that the original Chr sold over 890,000 units (not count-

Civ II couldn't get better sell-in WEREN'T THERE MORE STAFF CUTS AT MICROPROSE THAN ELSEWHERE IN SPECTRUM?

It's true that the only playtesters that were laid off in the large traditionistrative cuts were kild off from the MicroProse Heart Willey facilitie adding fuel to the conspiracy theorists' fire. One staffer complained, "We need! have understood of their hard freehall the playtestervather Missing to Missic hot Civillians a quality product delivered in spite of a indicators schedule "Ton management insistethat the Hunt Valley managers set the schedule Regardless, an examination

ing bundling), it's hard to understand why

Why would I try to unplug an asset that I bet my entire company to buy? If MicroProse goes down, I go with it. 🖫 🖫



of the budget as adjusted for the knott shows that the Mayland facility still has significantly more playtesters than any other unit in the company and reports from the testing discrete indicate that there is open testing time on the content. schedule (counter to another numer which suggests that other products will be deleved due to testing canacite)



Since Its debut in November of 1994. Pugns

GENERAL has remained one of the most challenging computer wargames of all time. If you're still having trouble bittsing through North Africa or crossing the Votes during a Russian winter the

annoted cavelry is on the way! Peter Occupily and Stuart Giffeezie of Skedkum Software have released a senes of editors for not only Pivoxin General, but also its securis Aurio Governa and France General, United the



often clunky editors for many popular DOS comes, these require neither proficonce with Cara nor any portroller facility with hix editors. And while these utilities arred't "officially" sanctioned by SSI, they are really nice, professional edition tools

PG View is an unotheral, unauthorized saved-game wewer and either for Payore Granau. Although it was designed to work with the very first version of PG. I've tried it with each of the cetches installed, and I've experienced no problyms.

The more rebust editor Arres Polish oddly enough, works equally well with both the OOS-based Plyazer Greeny, and ALLEO GENERAL . eyes through the latter is: Wandows 95, Brass Polish has a lot of race "cheats," the most obvious of which is the ability to pump up your prestige (talk about bribing the general

BUT WHAT ABOUT THE LACK OF MULTIPLAYER SUPPORT IN CIV II?

Spectrum Holobyte invented the Electronic Battlefield Series, and made an only commitment to multipliner play So. the lack of expected multiplayer support

in Civil seems indicative of Spectrum executives' indifference to the MicroProvebrand. If we believe Calonia Louis this. twice is indicative of how poor the cons-

stattl) and lower that of your opponent. And-for those of you with a sodistic souse of humor-the designers were determined not to let you morrery around with your goponent's e-mail tums, sony If you are netting bosoed down in

France, just change the year to 1945. and see how those pesky RAF and French fighters stand up to jet fighters? You can edit supply, add transport whenever and wherever you life: change unit types at will, see how the Americans fare at Arctio if you have the

ados in artiflary. Gem Polish is much the same as Brass Palest, but is constructed to let you take advantage of Armies of Aer, in SSI's Europy Governo. As yet, I haven't figured out how to supply Mordra the Sorceress with Tiper tanks, but that's about the only thing these wonderful editors lack. Check out the CG-ROM this issue, where the designers have provided the shoroways vareston of PC Vesse Brass Polish and Gent Palesh: As with all shareware, you are strongly encouraged to upgrade to the registered version

To contact the designers: If you have a CompuServe account, GD SWREG and search for registration ID 7839. If you don't, send a check on a U.S. bank for \$12, or an equivalent postal money order or bask draft in U.S. funds, to Skockum Software, 1301 Ryan Street, Victoria BC, Canada V8T 4YB Canadian distorners may gay by

check for \$16 in Canadian funds. Or contact the authors at their webste http://ourworld.compuserve.com/homegapes/skockum

munication was between Elimi Vidley and Spectrum HO

Examining the facts may well indicate why a conspiracy theory is so prevident among Microffrose employees and poline

fors of MicroPiose products: . The hooks are in place to insert mul-

trolling older in Civill · Parts of Civ II work under the

CivNin code · CCW was told by the design team

that multiplayer play could have been auntemented in four weeks · Spectrum inconfives were fold by the management team in Unit Vidley

that it would take six months and approximatches quarter of a million dullars more to implement multiples or plus. · Othern Louis expressed his willingness to ante un \$100,000 in estra decirlor-

ment funds if the Civ II design team could give him multiplayer play in eight works and suggested to CCW that he would then make it available free for download on the Internet Our hest guese? Certain design feam members are underestimating the task at the same time that Hant Valley managers are covering their assets by padding estimates.

AREN'T SID HEIER AND BRIAN REYNOLDS LEAVING MICROPROSE TO FORM THEIR OWN COMPANY? For now Sid just toffame. Why no we

not suprisc? Sid never even admitted selling all of his MicroProve stock prior to Biff Stealey's near-fatal plunge into the coin-op-world. Still, we have confinned that Brian (decimer of CW II) havindeed flown the nest (downour own conclusions). Wil Spectrum's changing of the bund

name to MicroProse convence both combisces and consumers that the MirmPrine far 8th, and culture is been to stay? It is hard to tell. It is, at least, one conrect move, as are recent affermets to have both exes and marketing personnel on site at Hunt Valley on a more searcher basis and concerted efforts to do more encles. sharing between all of the development facilities. Here's hoping it's enough. We'd hate to see a primary source of strategy gimes dry up %

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Worl<u>d</u> Enough, **And Time**

For Explorers And Expansionists, This New World Is A Dream Come True

by Arinn Dembo

If tell you what I love about the computer earning industry: threebud games emit kill a good one, even if they come not earlier. is one with game. I was tantalized by the beta trolayed lost fell, waited for menths to get my hands on the furthed version, and now Eve been playing if for two weeks shought Even are months ago, it was obve-

our that CONDUINT was point to be the offirm to Four X experience eXploration. eXploration, eXpansion and eXtensionation. Unfortmetels, while I was capely awaten CONDESS. three lower games detailing the Age of Exploration aspeared, ranging from the tedious to the dubious to the shanefully awful. But Interplay wisely took their time releasing CONDUIST, and now that it has anteed.

if y risen weeneds above the envery filters by neiling down the bases, fleshing out the details and servreg up à bean of feils.

on the side Inshort. do it right. WELCOME TO THE

WORLD CONDUNE begins when your ship first touches the shows of a new Lind, On board, son carry three Explorers and an

AGE OF DISCOVERY Conquest has a wondorful take on conforation, by awarding points for discoveries of natural wonders, it makes exploration fun and relevent.



Level O Users

COLONIAL POWER Coxcuest has numerous strengths as a game, including its robust colony building, exploration, digiomacy and tracing aspects

later, a second ship anives, carrying a Settler, another own and an Explorer The two ships, three Expliners two armies and one settler are all you will ever net from your Mother Courts, that is, besides recorests for tases, tromble, and marked-up merchandise. You me voltorusble at first, since there's no going home. And if your first Settler unit is destroyed. before you can exert e your first Colony,

your dreams of coming in the New World are frombed Camples is distiled between fine large priorities exploring the world, establishing

and defending colonies, destroying onemicrondunding weaker settlements. manufamer diplometic relations with other planers, the mother country and the natives, and opening up trade rootes. This is protes much old but for strategy gamers. but what makes CONDEA ST different is the way interplay re-awanted the evalusalson avocet.

CNW makes embration more interesting, four and relevant by ercoting a vanch of acomphical fentions on even man and attaching victors points to their discovery. So, if you're the first player to climb to the top of a mountain, you set to give it a name and collect points for being the first one there. Ditto if you trace a over from delta to headwaters, with special bemises for charting larger regions or entire mountain ranges. You can rack up a summers lead over your organization.



Price: \$49.95 System Requirements: IBM compatible 4860X-66 or Nighet COS 5 0 or higher, 8 MB BAM. VESA-competible SVSA wideo card with at least 512K video RAM, 2x CO-ROM. 8 bit sound card (16 bit recom mended) Network card, modern or serial

cable, 9900 boud or bigher modern needed for play on multiple committees # at Players: 1-6 Designers: Vince Delitatio, Rdl Fisher and Byon Garrabrant Publisher: Interplay (80th 468-3775) Reader Service # 350

army. A few turns





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JULY

by being a good eathersoher. And speaking of the map, it starts out blackand becomes a streamy display of topographs. The graphics for this game are beautiful, and you can countin to view the details of the backerne or colonies. CNW is certainly one of the best-looking strategy games I've ever seen, and was a bands-down victors in the Cuplest Terrain category

GUNS AND BUTTER

Of course, once son'se done looking amond, it's time to get down to work. No matter hon-you go about wirning the game - and believe me, there are a milhon ways to do it -- you have to build and develop colonies As you hunt through all

level as quickly as possible, and gives bonuses to military units when he brokely a First and War College The Tayon is where you go to exemit new Poplorers so the better the pub, the better the explorers Aunthor eventul is the Commerce building because it allows your colors to make their own finished goods one of the raw materials thes/se harvested a very otal capability if you ever want to declare independence from the Motherland.

Brilding a network of settlements is faith simile What's actually more difficuft is defending those colonies once. you've huft them. The compoter is ruthlessated abuses career to take not your colonies. Once you suffer your first brutal attack-you'll find you can love an artfol let

> To me, the combat watern in Contrast with weakest pwt of the game All kind attacle are usoked on a 3et. two-dimensional battlefield. There are only three types of criffory units-infinity, cavaln; and addless—and they can only move and attack horizon-Advorvertically never discomilk. History that affect combut me the military leaders you

ment and tare, the number of unity they can command. the number of attacks they act per sound, the charamather use on their own men, and the few they metal in their onemics There are also additional factory to the combat econ-

tion the factics concern learn

at War Colleges the level of the Forts the Imors come from and how expenenced sum units are There are even bourses for flanling, charging, and combined-arms when your men fire on the enemy (i.e. when infantry, carefry and antiflery mitsall attack one serum in tandem).

Ultimately though, the extremely limit editable of the battlefield is a severe disadvantage to human players. All these attempts to enrich the combat system are reduced to more munber-counciliare by the testas-togarena of battle. I mean, how excline can bettle be when you only

hand a 3x4 and to maneurer m2 The garphics and wound are awfully enot, of course, so it isn't completely imbearable. assist the computer (especially if unitethe High Native player), you should defiintely attack and defend with every beliningly massive forces

THE SUM OF THE PARTS

Despite the weaknesses in the combat sistem, CONDIEST has a great deal to recommend it. It supports up to stuples en and encourages speak gamme with excelbest books for networking, modern play and senal port connections. If vaggest game to play against other people, and the more the necessal Not only closs it. handle the turn-based plan estremely well but the game actually awards points based on how quickly the players complete their turns if some slowpole in the network is dsagging down the game, they'll be docked points, whereas people who move quickly are awarded a few estricytetory points for ending their turns cody

Places have control over their victors conditions and can chose to be one of five European pous nou al litely Native civilisation. Oven the networking, the misand-match victory conditions, and the random map generation, the replay value on this title is very bush. Eve logged over 60 hours on the same. 20 of those no retwork play, and lowers't autten tited of it set. CNW pets burlumarks for style seems. fifty, and technical performance - not a single lock-up or crash mall the hours I. placed it. I recommend it to all Four X ferry, and any one with world enough and time to appreciate a well-made same \$



high is little more than a 3x4 grid. There isn't much room to manquiver here ing form a nice that plain at the foot of a

morntain perfesible with a gave minute down to the senantly once poor little. woods close by Foru prosperors colory. you'l' need timber, metals, grild, emps, and plenty of level land for buildings Thereare a dozen different types of

structures to be built in any given colors. Even the simplest, lowest-level colors, needs to hive a Coloni Center farms. timber mills, bonsing, metal mines, a gold mine, a dock/tasting post and a church. Awise ensemprivill mokes are that he builds the Colors-Center to its maximum APPEAL Strategy fant lecking for a deep and enjoyable Apr. of Exploration game will be in seventh becare been. PROS Gorgeous graphics, supports six skryers on network or modern, extreme ly cool explorati



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Repeating History

Building Empires Isn't As Fun In This World

by Martin E. Cirulis

realize that with so many new softnare titles being produced every month, by an ever позвыщ пиньег of gamme compaoles, there are bound to be a few

titles that - how.

shall we say-exerting, in terms of their subsect matterantlesention White this isn't too sare in a genre Marsins, a a semewhat more imposal when you enter the realm of strategy garnes, where ennount is

alcost even thing. Lam always supplied when a game like THE MEANS WAR is released christe the hearlst of COMMAND & CONQUUE's popularity. Did samebody. actually think that people were so hungry for point-n-click, real-time wargames that they'd shell out for another same that did the same thing as the last one, except without the fun part? Well, now, nding the skets of Chill PADON 2 comes Sterra's entry litto the archest empire building CHEMIC RISE AND RULE OF ANCHOY. Extrans. And, while it is not a tentile. Price: \$54.95 game by any standard, it still fails to re-

> invent the secre, and the word fredomdanf keeps contrig to mind. DIFFERENT FOR DIFFERENCE SAKE I don't error the designers of R&R at all.

From the start, they had to know it was going to be a tough road, because designing an empire builder of this land, even if they clear plan on going post the beth of Rome, never mind Alpha Centauri, would invite codless comparisons to Crystation Intraine to find a mad to successall their own, Stems has charted a associate course somewhere between

FAMILIAR TERRITORY Serre's answer to Concorner is a watered-down version of the great original, with multiplayer options and a more hmited timelame. computer CN and the old Avalor Hill classic Accession Chargerion, In a setu-

looks like much the same name Build a city; build some military units to explore. do some research, build some infrastructure. We've scen this one fair, the difference win the details.

the first city of

your grand, ahem,

envitzation! None

on the surface if

and at an operational level, R&R warmschehlfennt game than Civ. The basic plan scenn bent towards the abstraction of the more time-consuming details of Civin order to create a faster-

get made that may not be the best three R&R has settled on the bearnings of the classe historical emotirs (Careco. Egypt, Mesopotamiw and China, plus the highly them.

ution like this, where circumstances drive

you to be different to avoid being accused

of closure a lot of dozen calls

retreal inclusion of the Celis), contered on a mas that includes all of Europe. North Africa, and the Middle East. While the computer is accorthan expuble of generating a non-Earth chunk of termin, it does true you amidea of scale

other empires down in southly opposite comers Now the opening move will seem pretto familiar to most of us, because you start the game with -- guess what? A lone Settler un'll Yes folke, it's time to unlittely those besits of burden and plank down

BAYSIDE PROPERTY City management in Risc (No Blus is very simple, with a visual monventation of your city. and sliders to convey all pertinent information others the computer planks you and three moving game that allows you to concen-

> trate on grand empires instead of worning about budgeting issues. In fact, there's no moneyatall in B&R.

Your confee comments non on a cetyline city basis, with the management system based on four slider hars that represent the percentages of the population who are



or better 8 MB RAM. SVGA graphics, 2x CD-BOM drive, 20 MB hard drive strace. Windows 3.1 or Win 96, supports most major # of Players: 1-6 Protection: None (CD most be in drive) Designer: Grenor Publisher: Sirra On-

System Requirements: BM compatible 496-33



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CHESSMASTER 5000 IT'S TIME YOU PLAY THE MASTER.

3

trivolved in harvesting food, researching new knowledge, building new units or structures, and eathering resources for control building. In a new thickness rem-Infecent of Severnosto Hot You maintain your empire by balancing these bars to yield optimal growth and construction. potential, while still allowing your city to own knowledge that will lead to new structures and units. Those of you waiting for a whole new world of discovery and invention branches are going to be disappointed though Like the recognity, the whole area of science and discovery is dealt with in an abstract way with dider bars. You just elick on the academy build-

ing on the city display, and adjust what

HELLO, NEIGHBOR One thing going for Rise was Pluz is mulfiplayer options. The game is also abstract enough to be played quickly with friends.

either fight to externination or ravage cach other without any clear winner, destroying many of the component units on one or both sides. A rice touch here is that inmites are expected to forage for food when they are not in town consenting your atockpide, and armise from often both was contain termin type will forage

better in those areas.

All in all, R&R does seems to be dedicated to a concept of quicker, more abstract comore building— in fact, the box

abstract coupies building—to fact, the box claims you can play an entire game in one sitting.

Unfortunately, the designers, apparently caught up in the unge to be different for the sale of being different, have clouded this simplicaty with details with they are periorably between the clouded they are periorably between

eiting, tend to clash with and destroy much of the flow of the game. The designers abstracted new obscoveries into

and measure, from building buildings, but worst ahead and forced players to create a finely timed network of Philosophiers to carry knowledge back and both from city to city, instead of havway one general pool of harwheiter. For

philosophers and military units build made instead of settlens. In trying to simplify the game, but their gamp beck on their internitions and adding superfluxes dealth, the designess been mininged to create a product with more of the faceuring dealth of Contineering, the which retains almost half of the tedum. The amplifying of gamesphy soft count to resid the designate of character

from this title.

that matter, who make infrastructure-

braiding more complex by making

RISE AND RUTE tries to be a quick and enjoyable game of empire-build-

ang and compact, and succeeds on half of halt secon. It follows had been for some year an once indexes led in compact, and more indexes led in carding an empire. White a long in some place para necessary places and how much the indexes paratic me appeal, but he multi-plajar much in quite efficience and the culture genes is very stable, acting a prefect for net high Underhandish places in an appeal of the propagation of the compact of the places and the possible of the places in protection in a gain and in these being discovered to have been a prefer to the propagating the form the compact place and the places and the places are propagating the form of the compact place and the places and the places are placed as a place of the places and the places are placed as a place of the places and the places are placed as a place of the places are placed places and the places are placed as a place of the places are placed as a places and the places are placed as a place of the places are placed as a place and the places are placed as a place of the places are placed as a place of the places are placed as a place of the places are placed as a place of the places are placed as a place of the places are placed as a place of the places are placed as a place of the places are placed as a place of the places are placed as a place of the places are placed as a place of the places are placed as a place of the places are placed as a place of the places are placed as a placed as

game without a lot of excitement to rec-

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WHERE'S THE TECH? One area where R&R falls flat is science and research, which is too obstruct and doesn't yield enough advances aside from building facelitis.

percentage of your research in geting time the the shophine of Sage, Engineering, Method, Marthil and Central Kooshedge. The only wal reward for punking your knowledge to the hirst in an ability to create a single result Wooder of the World to proclately your gerios. Once again, efficient — but more than a little day.

Combot is relatively straightforward. These use only in handfill of units to choose from manify of three weight choose, arches, light and heavy cavalry, and catapuths. The only difference from the old days of this-versua-like Cor figiting relative countries to the control of soften you can stack units together and thus create armics. Opposing armies can APPEAL Those who would like to try a quicker, more abstract alternative to Conscious.

PROS A simpler, bug-free version of Coffer with great assemblies and sounds along with a true interesting twists on the theme.

IL what is the point? &

COMS As & Rou abstracts all the fun parts of empire-building and adds too many superfluous and tedious dotals.





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- Bruce lenner, the World Champion Decathlete, appears as your "on-line" coach, providing hints and tips on how to excel throughout the game.



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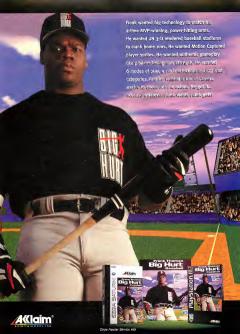














Norse Play

VIKINGS Revisits RPGs Of Yore, With Disastrous Results

by Tim Carter

have always been suspection of games with necessorial files Vasives: Pile Structure or ULTIMATE CONQUEST confirmed my long-bod suspected that game necessor are feet the quality of the final product. Despite lerong the week-"histogy," "ultimate", and "compact," and one of this yell most successful military cul-

tures, the tube itself doesn't quite make sense. Sodby the same can be said for the game, as well. To begin with, Visiones, from GT

Interactive, has the word documentation. Five exer seen. The 2D page booklet in the CD case provides only the beared documents of the control startise. There is no need explanation of the conduct system, the way leading works, or even how to out the expedition good the conduction. Even the read then the instanceparts, continuing only has purappash, both about available, on one before a rowner shore the file.

Fortunately, much of the game can be worked out through tital and error but this doesn't compensate for the complete back of guidance. It's all well and good to talk about would compens to the introduction but players are never green a cohesion to explain a fortunate of the work of the work of the work players are not not the work players and the work of the work players and the work of the work players and the work of the work players and the work of the work players and the work of the work players and the work of the work players and the work of the work players and the work of the work players and the work of the work players and the work of the work players and the work of the work players and the work of the work players and the work players are the work players and the work players are the work players and the work players and the work players are the work players and the work players are the work players and the work players are the work players and the work players are the work players and the work players are the work players and the work players are the work players and the work players are the work players and the work players are the work players and the work players are the work players and the work players are the work players and the work players are the

A SUNKEN SHIP

Windows and Mac name

So what about the game nself? To be fan, I file the concept Russig an army and whing off to prinder a largely nucoplored world could be a let of fan. The designes have fired to add depth by creating a system shift bears quite a list on role-playing, and adventure features—such as progressives delft file key leaders and sidething quarts for powerful objects.

PUPPETEER PUGILISM Combat usually means land invesions of towns, resolved in realtime battles that boil down to a lot of pointing and clicking

cessful this formula can be, and I have nothing against mixing genes if the outcome is an enjoyable and challenging product.

Not for all of two concentral not extral

Visions fails to deliver. Many of the concepts bernweed from not-episting games do not add in the gaining experience, and some an downight amonying. The game often seems to have abducted the worst separate of BPCs from four or the years age and forced them into the confines of a strategy game.

a dusting grant.

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is pretty bad. The harmoid talks in adolescent innmendo, while the stories are—to use a technical writer's term—pure disck. To make neatters worse, the fast-formant butten that sits just below the story text

botton that sits just below the story test doesn't even work.

To a degree, the problems with the towns are symptomate of the use the

tomes are symptomate of the way the entire game has been designed. Not urible many bad RPCS, Vicines centains a let of make-work choics intended to keep the gamer bins. You end up pflaging.



FAMILIAN FACES Remember the barmad from Payres? Well, Words has the same juvenile dislogue, cannot character interaction and some boring role playing elements.

System Requirements:
PC. 88M composite
496-33 or better, 8 MB
RAM, SYGA graphes,
2x CD-ROM drive, 15
MB hand drive space,
Vindows 3.1 or 95,
mouse; supports
Sound Blaster competible sound cards.

Price: 539.99

Powerflag, 8 MB PAM.
12 MB hard drive space.
If of Players: 1
Petersien: None (CO must be in drive)
Designer: Random (CO inhard to in drive)
Publisher: 61 inhard the None York, NY (800) 610-615.
Reador: Sovice III 3344

or better 68040 or

Games Nie X-Cott have shown how suc-



WHAT A NICE SAIL BOAT For much of Visivos. our II sail around Europe in a very symple boot that represents your fleet, it, like the game, is simple and dull.

for the sake of pillaging as much as to further a larger set of goals

THEY SURE DON'T FIGHT LIKE VIKINGS

This would not be a problem if the act of reflazing was a little more exciting. Unfortunately, the battles are too simple to lend themselves to tactical planning or chellenge Essentially, winning is a question of building a sufficiently well-compared and well-led amoviand then pointing it in the right direction. There are only three types of combatants, and your army may anly comprise five groves of

99 soldiers each Furthermore, each group new only contain one type

of soldier The hand-to-hand combet is even worse. An modegrute and absolute wearle

sequence is not explained very well in the mannal, and I was neverable to swing my character's weapon effectively. The

Instructions eiten for doing so are incorreet. So, I rust avoided hand-to-hand combut whenever Locold

Vitances' had is receptive is unfortimate. when you consider the inherent potential of this same Amilitary and economic

between nimbering for profit or organiing your empire might have been both from and challenging. Sadly, Visascs terms out to be neither. It plays like a 1987 roleplaying game with a larger party and oversmoothed strategy elements Undoubtedly threatine would have looked good 10 years ago. But, today this troe of borne sumenly just looks old.

canned and eliché. % APPEAL Gamers leaking for some simple pillaging, or those wasing for a less fun. Scandinavian afternative to the old, sentaring classic Pours. PROS Eth't crash.

CONS Doesn't work as a package; role-playing elements are boring; strategy elements are hardousty simple.

men bes on ry too simple and venile. Combat is aver-shrollfied, and iscummtation is delly inadequate

simple for that offered you the choice

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gelcome to the Cooperstown of Computer Games, Here, raised upon pedestals, you'll find the names that broke

the records, established the benchmarks, and held gamers in delighted trances for hours untold.

INDUCTION CEREMONY!

X-COM MicroProse, 1994

ertainly, gaming products from Europe have hard success on these shores, but the greatest his of recent years were

puzzlefaction albirs, such as Masic Cases or LEWARISS. Who would have believed, especially given the subject matter-bug-eyed monsters with zap guns-that the Brits could corner the more cerebral market of turn-based strategy games?

X-COM arrived lotally unheralded, and many gamers figured that it would be a mere rehash of Lisser Scuro. Certainly concepts like hidden movement and opportunity fire have been around for ages, yet rarely have they been so well employed in a man-to-man tactical combat game. Soldiers statistics improved with time-provided they survived-adding a welcome element of mis-elevant. The alien opponents were creepy, challenging, and on the higher levels, downright merciless. The insidious mind-control of the alien leaders drove more than one gamer to psi-frustration, and the horror of watching Chryssalids transform members of your sound to altens gave more than one

X-COM commander nightmares The strategic shell was surprisingly robust, as you were forced to believe economic and political concerns in order to field your X-COM operatives and detend Earth's nations. Researching exobs alien technologies recalled the joys of Cavuzation, while the variety of weaponry could keep any space. marine ferreting out Sectolds from UEOs until well into the 2131 century X-COM is a great game which proves that pushing the technological envelore is often less important than stoking

TIE FIGHTER Lucasarts, 1994

indeen years and Geome Lucas opened our eyes to new galaxies fac far away Ever since then, the

Star Wars sage of a small Rebellion struggling against a mercitess Empire has captured our collective imagination

While several games have attempted to transport us into the tiery bettles of the Star Wars universe, none was more successful then TIE Fronter. Project leaders Lawrence Holland and Edward Kilham designed the game with an authentic Star Wars atmosphere, a strong storytine that expanded on the exit Empire, and a rousing space simulator. Players discovered what it was like to be a TIE Fighter pilot and experienced the power of the Empire's exil proceganda machine. We became a party to its netarious pursuits, ensuring its survival with our brilliant piloting skills. We even flew escort for the decaded Dark Jedi himself. Darth Vadeo

Fighter's comeplay was superb. You could by up to five different imperior spacecraft in the extensive Campaion Game, doptionating with X-Whors. Prigates and myrlad Rebet craft in a host of progressively difficult missions. The missions were challenging and logical, fitting nicely into the storyine. and the enemy pilots were intelligent, lough lacs. There are terr space sims with a combination of great connectay, pict and atmosphere, but TIE France. stands out even among this elife company. For a true Stur Wurs expenence. there is only one game worthy at the Emperor's tayor. TIE Figures.

in addition to excellent graphics and nicely animated cut-scenes. TIE

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Inductees Prior To 1989

the gamer's competitive fire.

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LOSE BY THE BASE (l-Motion, 1992) ETRANA, AT KRENDON (Dynamix, 1993) Day or the Tentucke (Dynamic, 1993)

dd Sattware, 1993) Faccos 3.D (Spectrum HoloByte, 1991) FRONT PAGE SPERITS FEOTBALL PRO

MicroProse, 1989) (Three-Sixty Pacific, 1989) (Sierra On-Line, 1990)

(Psygnosis, 1991) Lines 386 Past Access Software 1997) M-1 Tork Planter (MicroProse, 1980) MASTER OF CREEK

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THEIR FIXEST HOLD THE SECRET OF MOSKEY ISLAND

AucasArts, 1990) Ucross VI (Origin Systems, 1990)

(Origin Systems, 1992) Wise Countages I & II (Ongin Systems, 1990-91)

Wittenstein 3-D

Computer game programs have grown so massive and the number of hardware configurations has become so huge that incompatibilities and glitches are frustratingly common.

Absolute Zero V1.04 Update: Frees crash buy found in version 1.0.3 and corrects some minor tups in the following missions: Affack on Aegis 2, Atlack on Aegis

3, and Hammer and Arryl 2. Allied General V1.1 Update for Windows/Windows 95: Fixes numerous bugs

Anvil of Dawn V1.1 Undate: Fixes crashes, several graphics problems, armor rating malluncfon, and corrects the problem with entering Gorge Keep from the northern entrance and getting stuck when the portculis is shut.

Battleground: Gettysburg V1.02 Upgrade: Incorporates various fixes and upgrades game to v1.02. Install instructions are found in the Install Note Text the

(RGGSFTUPTXT). Civilization 2 V1.06: Rees Al damaged from earlier palches. Also cleans up mulfimedia olaches and other annoying bugs.

CivNet V1.03 Undate: Flors the "Cannot write to AUX" error Refer to the PATCH.TXT file for installation instructions.

Descent II Undate: Cordons the configuration tile for the Thrustmaster FLCS (wio TQS or WCS) from the DESCENT II Interactive Demo. This file was accidentally control from the full version of DESCENT II.

Front Page Sports Football Pro 96 V1.01: Updates game to version 1.01. Press verious techninot iccruse

Hardball 5 V5.12 Undate:

Undates stats for the end of the 1995 season. Rosters updated to the end of January 1996.

Heroes of Might and Magic 00S V1.2 Update: Improves compatibility with certain sound and memory configurations. Resolves dialing problems with certan moderns.

IndyCar Racing II Update: Enhances online/modern play and adds time acceleration to the game.

MechWarrior II GIOOI for OOS Update: Fixes reported joy stick problems. NBA Live '96 Update: Littst

update with new rosters, including Michael Jordan, Magic Johnson and Charles Barkley.

NHL Hockey Updates Fixes numerous technical problems.

NASCAR Racing V1.21: Updates NASCAR Racing to v1.21. Addresses many issues including computer opponents being affected by damage

Panthers In The Shadows V1.14: Flors all known bucs including the artiflery bug. Copy the fite into your Panthers subdirectory. type "PS-114" and overwrite the old Not with the new ones

Ripper V1.02 Update: Corrects problems with the WAC and notebook fixes display problems with the Malrox Millenium video card and other known bugs

Terra Nova Update: Fost the problem with the Bandom Scenario Builder, which crashed the game if used four times consecutively.

Software fixes, or "patches," for buggy programs have become a necessary evil until we reach the golden age of standardized platforms and bug-free programs.

Unneccesary Roughness '96 Undate: Fixes sound and video problems Wing Commander IV Update: Fixes the 16-bit SVGA palette prob-

lem found with video cards using the S3 Vision 958 chosel and the

IBM BGB524 RAMDAC, Fixes crob

lems in using Hercules Graphite

Warrraft II V1.0 Undate:

Fixes final color randomizano buo.

problems, V1,0 also includes a

man editor update, WAR2KAU

ware version of KALL

Velocity PCI cards.



New Potekes are as

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Many of these patches are available directly from the publishers, at the following sites: Accolade ditrilwww.accolade.com

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	Aervil of Dawn	New World Consputing	BP	9.04		Parinters in the Spanishs	117.0	ио	

Constat, ST = Strategy, WG = Wargerns, AC = Action, SP = Sports, CP = ClassicPuzzle Games are related after two years and become eligible for the Hall of Force

JULY 1996

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What's The Deal With... Upgrade Fever?

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stimiting further befrind the licinois opy cares, I have finishy atomicined the world of 4885 brever and row read in the readin of Postsumi-Bedden and 686, 900, CD POMS and apprilis cards with more memory than this Latery of Congress. Alse a year and a set of vestching compraise games stoney leave me befrind, now i'm on log of the virtual world!

So, why do I teel life the just gotten a nose job so I can hang out with those kids on "Beverly Hills 902/02" Will all this power change my? Will

my neviews start featuring those genius statements like, "This game are like a dream on my Pentium 2001" Will I surmotion to like glow of multimedia dreame? Will stoppy programming cease to bug me because my machine is too last to care? To be hon-

est, t-dunto. Power still does comupt t carrii say I wesn't chording over how great Who Cowwisses 4 booled and played on my new fig. or "mowing" over finally being able to run Advances Occount. Figures-in at its high-res glory and multiple alrosalt

But you know Even-Secr2 is still a life tie flat after the first few minutes of "cooks" and "ahths" tarle, so I know my objectivity isn't completely cone On the other hand, my recent remarience with Cw2 has shown me how technology can enhance chrome. When I first started playing it on the noble old clunier, the little videos for the Wonders of the World were more rate then inspring, as they charged onto the somen in stuttering doublespeed. But playing it on the new rig and viewing the videos as they were meant to be elicits the "cool" response that is so important for a game Now I can hear the moons of the old-timers out these saving that my head is being turned by things that are completely

complexity-verticul a sincle historia.

superfluxer is a game, and to be heneat, yearing probably right. Whose deplihave indring to do with the excelstract of a weaparts. And there is no object that a pood stratigly-wrighter should be playable on a 295 of even on a boost, for that making and the risked sorting time is one witten the basic game will run on anything. Bull These to admit that more hardware gower and accessibility in more ciptions makes a good game even balts. Speaking of enrings on a 286, one

Speaking of running on a 286, one of the things that's really bothering me about riding the upgrade wave is the idea is that I am sometiour now endorsing the outrageous system. demands on games that really don't ment them. I mean, I don't really blow 4 odd grand on this machine just so I

oxidate frozen or the More Wei

all normal speed, simply because notody bithered to code these things properly Peramether the good aid days, when Doon squeezed every single counce of processor power out of your 366 and 4 mags of memory? Some game programmers are seem to have gatten occly these days about which are the programmers are seem to the gatten occly these days about which on their desks. When programmers on their desks. When programmers

say. "We sure wish they'd all net

Perdums!" My response is: "We sure

wish you'd learn to code tighter!"
It reminds me of a Wite disagreement! got into with a couple of Nationals over Ongan's Sirvex

Notints over Origin's Street Connector Now this was in the days. when a Pentium 60 years a rare and wondrous beast, and both of these upper middle class wunderkinders were going on about what an incredible game it was white I vainly oursfioned the wisdom of a computer. game that could only be properly played by, at the time, a very small percentage of the gaming public, I don't recall exactly how it turned out, but I believe my point fall on once which had been disferred by computing naves Does the load of dough I just dropped mean I must now join them. and proclaim that only the absolutely most demanding games are the best

won't care to be taken for granted by programmers who first we all make 170 gr's a year and can get cur computers wholesale, just the first Afficiant for Cluses, "cause I want to put this right through its peops. But which gould at it, don't forget to give emplooy the X-Coves and the Cis." \$

ones? Probably not. Even though I

have once again caught up, I still

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