

# THE RIGHT CARDS. THE RIGHT CHOICES.

28 Hot Reviews! Hellfire • Wing Commander Prophecy Red Baron II • Tone Rebellion • Steel Panthers III NASCAR Expansion • Lords of Magic • Joint Strike Fighter Frogge • Heroes of the Gridiron • Journeyman Project 3









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## "PC games are what I live for.

I just love standing in front of my really big-screen television, totally immersed in a helicopter battle, fragging dinos or racing motorcycles at breakneck speed. It's wild. And I like wild. Intergraph's

Intense 3D Voodoo add-in araphics card with its TV-out connector lets me live it! I just love this graphics card! And it supports the largest library of titles available for any 3D accelerator. Its greade-quality 3D graphics are soon painfully good! And with 3Dfx Voodoo Rush technology you get the world's best combination of 2D and 3D graphics That's good, because in addition to 3D games, I can run regular PC applications.

So, I can keep up my recipe files, chart the ups-and-downs of my stock portfolio and write letters

to my Granny. Yeah ... really! Now, you can have the same kind of PC game

experiences I do. Just buy an Intense 3D Voodoo graphics accelerator.

It's available at lots and lots of computer retailers."



# PC Game Champion, 'Slash' Doolin, says "Get Really Intense with Intense 3D Voodoo!"



stunning realism and intense game play.



Moto Racer's and Jame's Longbow FX Intense 3D Voodoo delivers super-sharp graphics for















kay, so we all agree that 3D is cool. But why is it sometimes such a pain in

the neck for gamers to deal with? What's up with all the different standards-and which one will win out? And are 2D games dead now? To get the answers to this and more, CGW talked to a number of leading-edge developers and hardware producers, as

well as 3D-card makers. Fret no more. The truth is in here.

### **How to Buy a 3D Card**

You know you need a 3D card, but how do you Y know which is the right one for you? It's not just a matter of finding the best bargain-you need to know which cards support the games you like to play. Contributing Technology Editor Loyd Case cuts through the hype and bluster and walks you through the process of buying a 3D card-in plain English

SNEAK PREVIEWS



61 Jane's F-15



#### HARDWARE



News 3D Iron Works Pipeline Compan Presano 4850

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#### ADVENTURE/ROLE-PLAYING

MAG Journeyman Project 3 Armed & Delirious

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Johnny Wilson EE Lovd Case Martin Cirulis

#### DEPARTMENTS

On the CG-BOM Letters READ.ME Hall of Fame Top 100 GameSnot

What's on the CO and How to Like it Our Branders Speak Out News, Views, and the Latest Releases Greatest Games of All Time Readers Rate the Top Games The Best Gamina Coverses Online

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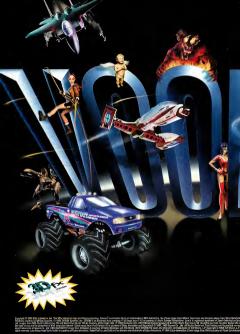
Purping Windows 95













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# Strategy Spectacular

## Savvy Strategists Should Check Out This Month's CG-ROM

strategy games to test your mettle. Those looking for a new (and more complicated) take on the genre should check out Seven Knepons, while the more traditional RTS players can hone their skills with WARREEDS and EXTREME Tactics. For turn-based garners, we have FINAL LIBERSTON and EAST FRONT, Action fans can shoot their way through Auriss ONLINE OF GRAND THEFT AUTO, FIGAILY, If you missed them the first time, we've rereleased the CLOSE COMMAT 2 and MYTH demos-complete with scenarios and films-to complement the strategy mides featured in this issue

■his month's CG-ROM offers seven



Westware 40,000 fame in this dema-

	April CG-F	IOM Titles	
TITLES	glittlorm	directory	eldetatese
Air Warrior III	W95:	AW3DEMO	andfeme.ma
Hors OnThe	W93	ACTERS	lestall.com
Nose Cordat ARTF	MES	DEASTR	maalif.cax
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Grand Theft Asto (30ts)	DDS/W95	GTA106X	gta bet
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GRAND THEFT AUTO Jack cars and kill cops for the Malia. This one has mature content, so keep the lodcles away from it.



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# Play! What Is It Good For?

Why We Shouldn't Be Ashamed of Playing Games

ecently, I made several television and radio appearances with regard to our Hotiday Hot 100 shopping cuide. As shusus when dealing with journalists outside the gaming arena. I was struck by livin misperceptions about carning. First, that garning is primarily for kuts. Second, that it's a silly waste of time. Whenever possible. I try to dispel such notions. With regard to the first misoerception, the demographics in the survey I shared with you in the January issue certainly assert that computer games are not primarily for lods.

As for the second point, I point out the positive aspects of play. Play is more than the admiraline rush we so often reter to in a game's "fun" tactor, but without that tun factor, we wouldn't been coming back to a game, Play is more than the rules for procedure. sconno, and victory that comprise a game, but as Paul Newman's Butch Cassidy so elequently put it. punctuating his assertion with a kick to an opponent's groin. "Ya" notta have rules!"

So, just in case you get the same patronizing looks I get when you mention playing computer games-or in case you need spousal or pagental approval for

spending so much time at "sifly" games-here's an attempt to elucidate why people play names. You might want to make copies and pass it on to any peer or authority. figure who's alraid that you're too caught up in come worlds and not

enough in this world. Why do people play? At first glance, it's simple. People play for exhibitation, accomplishment, and escape. They play to get away from

**44** I suggest that human play is even more useful than play

among animals. " Its. They play to experience more

from life. Yes, is that all there is to the appeal of play? Animals certicipate in play in order to sharpen their survival skilfs, develop innate talents, and establish informal pecking orders. Is human play any less useful? I suggest that human play is

even more useful than play among animals. Play among animals can develop stealth, retieses, and pattern recognition. Play among humans can do that, as well as

provide catharsis, establish prestipe within a limited circle, and preate overarching structures of ideas and approaches (sometimes called peradioms) that can be applied to problem solving in multiple real-life

situations In my April 1994 editorial ("Toward A Garner's Liberation Movement"), I quoted a passage from a Humanities professor at the University of Minnesons (Palch Ross. Symbols & Custrations, who contended that act "otters syntheses of types of experience...yielding possible frameworks in which we can organize the fragmentary bits and pieces of our ordinary lives so that they are related and significant." It still believe that gaming is an art

Garning is structured play that allows the parrier to assume the perspective of a member of another class or race, a personage from history a command personal another say another omlession or another belief system. It allows us to earn prestige by accomplishment and, whenever a pame is reset, allows us to compete on a level playing field. By letting us

accomplish teats and solve prob-

terns that we might never tage in

real lite, gaming gives us a vicari-

ous sense of worth and a bit of

form that accomplishes this.

emotional cathorsis--a chance to teel good, perhaps reborn. Nearly overy game enables us to improve our organizational and planning skills.

In addition, every style of game has its particular forte Role-playing and adventure allow us to examine other lifestyles. Strategy allows us to exceed and amass resources. (whether they be troops, food, gold, magic points, or reputation). Action games allow us to hone reflexes, recognize patterns, and memorize intricate moves. Simulations allow us to participate vicariously in and appreciate situations that are too restricted, dangerous, or expensive for most peo-

ple to expenence in real life.

Yet, all of these game styles and

differing perspectives work together to challenge and teach us. Games are "What if?" scenarios that broaden our perspectives significantly as they entertain. Imagine an entrepreneur who started a business without "playing" with business plans on a spreadsheet. That's not someone I'd want to invest in. Imagine a general who didn't "play" possible scenarios batore conceiving a battle plan. That's not someone I'd want giving me orders. Play is a vital part of real life. That's not something I'd went to give up. %





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#### **Death of the Dream**

I agree wholeheartedly with Johnny Wilson's editorial "Death of the Dream" (CGW#163, February '98), but I think you're wrong as to the cause. It's not the pursuit of short-term profits that is the cause of the poor quality in the industry. The root cause is that the majority of managers in the biz are just as incompetent in the gaming field as in any other industry.

> Mike Kelleghan via the Internet

Liest fumbed reading Johnny Wilson's editorial ("Death of the Dream"), and I had just one thing to say Assent As the QA manager for CITE Interactive. I was constantly healting with memagement over the release date of TIMELAPSE: Sales and marketing had set a release three without so much as a "What do you throk?" to me. When I confronted them I

was told that it had to be in the stores before Christmas, so I would have to make do My testers and I got in a lot of overtime on bug bunts, but either the frees dich't hoppen fast enough or use fix caused three more problems. The upper management opgrided TIMPLAPSE from alpha to beta to sold muster

. At the end of the six-month testing period, we still did not have a stable came. Lazern asked that we delay the release date, only to be told that if these were still bugs, "We can always send out potches later." A lot of good people put in a lot of hard

week on Town APSI: Unfortunately a few short-militarily accretions were more concerned with the bottom line then the lone-term special of one company or mitting out a publity product. As you said, if you take the time to do it right you will have a winner, but when you rush your game out the door in the quest for the first back, peuple will not return to buy your next riese of teach.

I just want you to know from someone whole been there that you lift the mall on the head

#### **3D BETAMAX CARDS**

Record CGW wars benifted a revolutely of 3D cards proming better performance with their various new chapsets. With the present dominance by the 3DfeVoodoo clapset in the 3D-accelepted PC state market. Hall to see the loose of introducing new 3D cords with non-3Dfs.chips. I have a Benchton V1000 cont, and am fed up that I have on necess to such notable numes as NBA Lay. 96. Extraoria Associa, and Cheery II B doesn't mean cran if the new Bereittien V2200 or RIVA 128 condo this or that, if it is not supported by PC game makes) These nothing assent 3Dfs. First have to kith reself for beying the "wrong" 3D c.ml

PC same makers who support only one chroset should realize that they are lesing notential

#### **HEAVY GEAR CORRECTION**

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elevision and to forball a sciosing editor or random-musson generator is a serious blose to the ecolar value of the needed." In fact, the name does mehale a randowmission governor to the form of its dreines compage Geer estended to instant-oction useds, rather tion a saydem-masses resentor Too seach possedue ground in the liceals of gigst robots evoluth snapled a bit of Greg's bears. We've fetting here with a special helmet before returning him to the cock-

## Computer

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customers. Let one, secondly demped the video of getting the three above-mentioned germs, because I discovered they drived separate the Renderson chip Intergraph and Construct Lada policies previously used the Renderson VICOs) have write abandword. Renderson in form of the new 2004 bondoo chip for that letted 30 coals. Which bogs the question, "Am I stude with a Returnor new that VISOs store?"

> Ashley Tan Singapore

Technical Editor Dave Salvator respondi The engoing 3D standarb bedelong control have revived a treasendons amount of condission in the market. The roots of the problems have been part

The note of the problems have been port technical and upon tenginess. All the regions an agent are posted as good as a surface posted as good as a post of the proper design of t

With Afternoth's Direct3D API, which

is a non-elips-specific API, devolopers don't necessary him or what level depoformance to espect, and not all of DirectIDs instruct him or all of DirectIDs instruct him or add of DirectIDs instruction on add of DirectIDs him to past in the nod of 63 necessary him to past in the nod of 63 necessary him to be a new Tayan, and all of blent can necessary or, his source cases, developed, past for the past of control of past for the past of the past

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her of the will mu only on it hashows
her of this, both shapping and forthcoming, that will no DirectD and will not our
your Rendward.

To help cut through some of the contision, me're nor sided an early called 3D Support" to our system requirements automation for every game reviewed We'll let you know which 3D standards the game supports DirectID, OpenCL, 3DB, Prom VH, or Resultion

Also, check out this month's feature concerning all things 3D, in which we further clarify which govern will run on which adultions

#### SCORPIA STUNG

I am puzzled slap Sceopian although to be under in concentant. Not reconling her blentity a least of cure, but allowing her to write neckees that are not rate dis growing timesome. Whilst at a safing and a nuceric comment how in the curron, I feel thin the guests also accesses, whether good or bad, are griting a war dealt As a recult, I really don't pay such attention to what she has been extracted.

Robert Borg

We agree Scoopis resulted game rettuge because she believes it and far to developen or resolves, and makes it tempts up to ship the easies. The result, ancholly was exactly adult she was styling to accel. Without e rating, her reviews were religibled to the back of the imaginator, which was always retired to the power, and it decreased her readenship.

decreased her readership Beginning this morals, Scorpar's reviews will be true reviews with ratings

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Edited by Charlotte Panther (CPanther@zd.com)

# **Tomb Raider 2050**

## Lara Croft: The Once Bombshell, Now Bomb, Returns

boon a long time since we've seen Lara Craft playing on our hand drives. Once the darling of the corrector garriero world. Lara spenishow lost her sense of proportion a few decades ago. After a 40-year absonce from the digital curgeons, sho's trying to make a corneback with Ther self tunded Tows Rycen 2050, CGW caucht. up with Fripland's polynosoly encumbered percount-rule.

to land out what she'd been up to for all those years. CGW: So, you're trying to make a comeback. Obsers.) How does it tool to be back after all these years?

CROFT It tests exect. (Exhalten a volcage relume of

smake ) I'm finally getting back to my roots. I fook great pleasure in defewering all those computer surring peeks. so many years ago. Unfortunately, when the next big thing come along. They described me-- I was thrown in the closet with the hospital hots and Star Mars marks Walt. I saw all those fickle garners going gazs, over every Mile trame that bounced onto their senses, but I wasn't women! Honey. they'd come back. Well, get ready 'cause morntry's coming home again!

CGW: Area't you a little old to make a namehaek?

CROFT Bugger off, you cheeky venkert Maybe I'm not as sory as I used to be, but I still occurrence sor-appeal from my area than those new little duty.

CGW: How, let's be civil. CROFF Alight, I'll be hoped with you I say the Disperse

Ouroson XXII disc, starring that little tramp Red Lotus, and I decided. 'Hey it she can do it, so can I. Red Lobis ain't got nothis' on me COW Rumar has it you walked in and saw her in a splash screen with your husband. Mr. Nukem.

CROFT Bollocks! I dumped that burn a long time before he ran to Latus. Sheme really, he was such a

cufe pic-lowly arse and pomeous necs, but solving point on unstains. CGW: Which brings up an interesting question. Don't you ever teel like you were exploited by the big gaming

companies? You have to admit you haven't been cast in a Town Rassen since Eldos started modeling gravity.

CROFT Year, I get that a lot. But it's never been just about big books and tight shorts. In case you haven't noticed. I'm not exactly easy the gat the moves that.

pamers die for COW: I see. And what moves

can you do now that anyone would possibly want to see? CROFT Lots of new moves, va. pisser. Hit a special key combo and I muckly chan my disk and bash the bad boyz with the bel-

enough smole from my lag to confuse an army Let that Lotus slut if try that And will fill you see my super thinh slam. I'll erank your head life an

greatness. How the mighty have fallent CROFF Listen, wanker. One more comment about the breasts and i'll show you some of those moves right now Aist as seen as I remember the combo. Who changed this blasted interface, anyway? Prome donne documents can't leave anything along!



# on second CGW has

earning hat Sid Meier's new Concoveron game will use the Quote II enginel the series' more arcane and obtuse elements, such as resource management and economic modeling, which Sid now arinsts were "baring," Instead, players of Cristizarion 3D will advance through firms by confecting ventus power-ups scattered throughout the game world. "With the Quiux Tengine," said Sid, "wo're finally able to take this series where I've always wanted it to go-

first-person action combat " >>> Riotous 3D has released its first prophers cast, the -Corruptes 3D CGW contributing Technical Editor Loyd Case says of the card, "The Corruppia's rhambord melastasized entitade cost achieve a 23 percent bloher

form factor and sasphra. iros have grabled it to WnDump score, all while samultaneously teleporting Kidly Lee Gelost to Albasia." MARker the success of a

number of prematuraly released products. Sierra has minased Acro Dum Larvas in uncompried source code form. Many garners have been enraged that the sam has no executable files. Sess Slerro's Mark Elingwested. "In fact, the class of gasked with interesting C++ source copie and nearly fully drawn RMP graphics Nes III only takes a little imagination to put you in the store over Labor. Acts Over Lievy '99 days

next years will include suich revolutionary features as one-

cutable program code. ecenty Al. and a thold model.

# Flesh For Fantasy

An Interview With the PGL's Hottest New Poster Boy

n the hotly contested world at the Professional Carner's League, no one has made a bigger splash than instant celebrity Thierry Nguyan, known to the garning public as "Resh." Flosh's Duviz skels are already the subject of legend, and his success in the PGL has already won him numerous prizes, endorsements-and even a ton duty the "Fleshelter"). But the's not all. Dury the past less months. Flesh has been normantically linked to at least three of the Spice Girls (prompting internal saughbling within the group, according to numerous labloids), and is numored to be living up a cameo appearance for James Cameron's uccoming Stanic 2 Alice Interestion CGW managed to paint up. with Flesh for this exclusive one on one interview

### CGW: Did you ever imagine this could happen as a result of being a garner? FLESH: Of course, My corrects alvoys told me that coming was a waste

of home and that I should study and shall but I know befor What are I going to do with an education? Get some low paying lob like being an edfor at a garning magazine? Please Thave ambifiers, CGW: How did you get to be so good at Queen?

RLESH: Basically by doses nothing else for a year I wore an IV, so I never had to stop for mosts, and I lead a bucket under my chair, for obvious asserts. Not showering or changing for a year kinds sucked. CGW: Are you surprised by all the fame and media attention you're exmerted now?

RLESH: Nah People are attracted to success. They can smell it And right now they can smell me.



CGW: Hon your life really changed a lot since joining the PGL? FLESH Well, if was like I was taking Scary the other day I don't think.

it's-or was it Baby? No. well-it was Posh. I'm sony, what was your marken area? CGU: Well, what we really want to know in how you've

managed to be so popular with the ladies. RESH Ney I'm Ne, an athlete, you know? Women which me work the

mouse and levboard, and you know they're all. "theck how out." Buby tald me the other day-no, wolf, it was Scary this time-that watching mas playing Quart was like the prodest approclass; over COW: Congratulations, Flesh. You must be feeling pretty good these days.

PLESSE Work dude Hey before you no --you went to colone, nate? What's appropriate mean?



# **READ.ME**

Edited by Charlotte Panther (CPanther@zd.com)

# **Unreal Takes Form**

GT Interactive's QUAKE-Killer Shoots High

hey said it would look good, and it does. They said if would rivel Quive II, and it just might. The folks down at GT Interactive are finally making United, a reality. When I saw the game in alpha form, it looked as good as Quive II. and boasted some features that could portend an even more sophisticated experience

As the stary opes, your character is aboard a prison ship that has crash landed on a planet inhabited by the Nati. a percent percel appressed by the warkle Sloam. The good guy for girth that you are, you decide to help the Nati best back the Skarn's evil

There's quite a bit about Useux, that impressed me. For one, the interaction between you and the game's inhabitants idvelves more than just violence. In your quest to help the Nai line themselves, you'll need to holster your oun and follow the game's mony Natiartistes to hidden secret areas The All in United tooks cood, and so it should, con-

sidering that Resper Bot creator, Stephen Polge, is creating it. The Skaari, for instance, leap out of the way of incoming weapons fire. And, typically, an early-level hulking brute may be powerful, but don't expect him to exhibit the kind of thinking that some of the bosses do. in deathmostch, there will be one great surprise for garners; the ability to play dead. You can felon death at a levelroke, and when your unknowns opponent runs sest your prone body you can less up and pump their back full of load.

However, the best part of Uniteral is its mind-aftering. graphics. The code for generating such effects as frahtning, laws, and water is affectionately known as the "tire engine" to the guys at Epic Magagames. The fire engine's fractal texturing results in flouid and eneray effects that give the world a presence of its own. It's the ensine's little visual details that can bount you while playing Unrexu: the silhoughe of a creature as it steps in front of a fight source, the smake released by a weapon as it lives, the glow of a weapon as it charges up

GT Interactive and Error Megagames are sticking to their early 1998 shipdate, so expect this came in the comiso. months. They couldn't be more



BIG, UGLY, AND SMART The At in Users should take the genre to a new level, thanks to Resper Bot creater tephen Polge.



# Who Do You Want to Shoot Today? Microsoft Unveils Part of Its 1998 Lineup

uring a late-January trip to Microsoft's Redmond bookgranters, CSW got a sneek-peek at some of the new Microsoft showed a new or

quadras, CSIV got a sneak-peek at some at the new trists that Mosset primmed to arrest at its section Gramatrick earth. Size for this surfaces retirest Supposed (see can led you that Ace or Exwess 2 is under development with all kinds or seen-supposed returnes motuded, but it we violate our root disclosure agreement to your you more officials, we'll be a trood or bundle informal Ceptioner with the magrame or the exert word have any some the historicals we can this about.

Monreal head elease in set cross dept elea, currently coheranted Spaths, below the end of the year. This end the year simulation that terms emotions of the 50 of 75 chosen term level bean marked to be verifying on Partier. The Verifyi Will complete year bead on the Ford Securities region Monte depting on this, as in Fund Sources (8), the annotation setterm treates written where the Sources (8), the annotation setterm treates where there own annotation setterm the setterm the setterm of the setterm the setterm of the setterm of the setterm of setterm the setterm of the setterm of the region, and will have to set of the team on yet the frame rule their worst for services.

un be hallower blank.
Morpooff showed a new device code named Tilt. Although it looks tilte a blanger version of the Sidewinder Game Pod.

f can also be used in a unique manne — Alting the entire controller sends yogstide.

Re inputs to your PC. It's a natural for motorcycle and driving garnes, and we found it worked great in Mrc/Mbanes: Mincouvers 8s will

The graing part like we halled all set morth is Minorina Tikuck.

Minorina 2. This time, the verybead is an ener better graphics and
pure noring his Tikuck as any although time which are which
weather effects and progressive derroop? There was now more
trucks, tasks, and neces, and even a Wardh Vertack, and now
then they be used with time most worker than the
high and minorina evidence could be careful or any
will make a video commo. Look for particular in summer
1988—Overs Wards of Steric Clark.



April Fool's joke, but this is: active Magic recently appropried that that it will release IF-22, version 5.0 this spring. If you're wondering how you missed versions 20, 3.0, and 4.0, don't work you didn'tremember all the patches. Interactive Magic released? They apparently appound for the interfin versional F-22 v5.0 will include all of those updates released since the game shaped last aummer Thankfully I-Magic does promise some new game features, including a new Persian Gulf terrain set, a. bust cockpit view for easier doctohing, as well as

enhanced graphics and improved Al.

>>> Duris 2, the 1992 state-graphic from Westwood Studios that set of the read time from y has been



improved Dust 2000,

scheduled for release later this spring, will include all the leatures that made its predecessor a linf.

Additions to the gerne will include multiplayer informed and LAN plays a Cosession of Corocces style inforface to improve speed and ease of gerneplay, and ease of gerneplay, and ease will also include new video mission brieflings inspired by the sets and easetures from the market.





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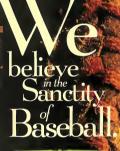


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parters. Whenever someone taked about Chauzknov, you knew they were retening to Sid Merer's magnum opus. When Merer left MicroProse. for Figure however throng not a little municipal, in fact, Meier told CGW last year that he had "gotten my name back," meaning that MicroProse could only use the Sip Meen's Divutional title for games developed

while Meier was still at MicroProse. Thus, there won't he any Sn Mare's Cv III.

Further complicating the Issue was a deal signed last August by Activision with Avaion Hill for the

"worldwide rights to exclusively develop and publish tuture interactwo titles based on Avaion Hit's classic Cardinaton strategy boardgarre," For Avaion Hill, the deat made sansa sinca PC Assessor Cert. 20000 sold less than 20,000 cogies. Bet Activision stated in a press release that "Cvv.zvnov computer games based

between Meier's game and the Civilization boardgame. Did Activision really think that it could sell an unrelated name as Overgraphy El and the bristin nub-To wouldn't know the difference? Not to be outdoors. MicroProse confused the

issue further, instead of keeping to its story of the past decade, MPS accurred Harland Tietol Ltd -- the Furniego company that designed the Classicion boardoame-saving that this move "further

names in the industry." What does all this mean? A lot of posturing from suits and tweyers, and at least for the toreseeable future, a lot of garnes out there claiming to be the true Coverzone. When you add the obvious Co-children, including Master or Orion. Mistra or Missic, and Melec's upcoming August Centrum, it lacks to be a very interesting couple of years for Cry lans. The accompanying Cry Sporecard should help you sort facts from wishful thinking. - Revy Coleman

Same	Publisher/Developer	Year	Civ Lore
The Post-Gene but Not :	Forgotton		
Sid Meler's Civilization	MicroProse/Meier	1991	CSWs #1 all-time game
Master of Orion	MicroProse/Simtex	1963	Stave Barca's masterprice is still the quintessential Galactic gr
Std Meler's Colontzation	MarcProse/Briggs/Reynolds	1994	Better lides than execution, needed more Sad
Master of Magic	MicroProse/Simicx	1994	In some ways, this "Cw with Meso" is deeper then the original
Sid Meter's Civilet	MicroProse/MorsProse	1995	Early simultaneous turn-based aftempt for Co i.
The Present-Star Widely	Avaitable		
Advanced Civilization	Avaion Hill/Avaion Hill	1996	Not guite as good as the boardgartie
Std Meler's Civilization II	MicroProse/Reynolds & Meier	1996	Over 1.2 million sold, and still going strong
Civ II Sonnaries	MicroPicon/MicroPicon	1996	Good mix of short and long scenarios, particularly Jihad

One of the most "puer the too" name designs over 1567 This add on even has a MOO Jr. socrarlo Attempts to supposed where CarNrr tailed 1008 The real "Cay in Source" that we've expected for years They'll immostart this after Access or Justice ships R might actually ship this mileanium

on the best selling Haster of Maple II MicroProse/Sintex 1968 board game have sold Civilization III MicroProseSintex nearly one militan Advanced Civilization II AdMision/Activision/Art Leanuage from on the herison copies to date in North

revente the maze like conidors of a futuristic

MicroProseMicroProse

Short takes on games and hardware released just prior to press time MICROSHAFT WINBLOWS 98 program, though, is a made up of cornedy bits, such as

Sid Meler's Alaba Carlauri FA/Frans

The Fature-Ways to Feed Your Cov Addiction

Ultimate Cir II Multistaver McrcProseMicroProse

Master of Orion II

Clv III: Fantastic Worlds

After defailing Mrss. The X Files, and Str. perpay TV shows and security converse that esveratop Hars. Permit infractive has set its safett on the corporate carrious. Some bits tall that, but most of sloble on the 200 lan results of the committhe carrier's control amustices -- Abbert Colleyer world, Microsoft Microsovir Patiedlan Interactive, (\$00) 916-2696 Wires own SR plants By skew www.astladium.net ers Janet Reno's levente Win SS/Man CO-ROW

moscooly, gaving portiou SCUD: INDUSTRIAL be attention to the rendy como sets packed leading at Highlights of **EVOLUTION** Western 98 Include a "Bill-ecotch" Scutt Industrial Evolution is set virtual pel that must be led money and another entry into the loo-down stocker. a Since brucers style blastfest calle gerne. As Soud, the robotic assessm, players must teday tond its intertains of and muterits. Stellerlown

corrector comes in two varieties: Salo Plar which implies shortling anothing that moves, and Primary Target, which requires you to claim a hodage and esport if to an exit. The graphics are adequate but not innovative. Action tars will find themselves on famillar ground -- Mathew Schaeler

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Wirthlows Explader The bulk of the



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# Activision is ready to

release ds Dear Bridge expansion pack: Rise or planned release date is March, and by the sound of it. this pack will make gamers sit up and take notice. Sevadovevan will boast several technical and gameplay enhancements. For starters, there will be over a dozen new solo missions and several multiplevar scenarios There will be new units. including a unit that can deform the terrain, and an animal trainer unit that can tame the new "criticis" that will be added to the game internet games will also be improved to allow up to eight players, More anhancements include Al breaks, new buildings, and added features to the con-

people shooping over the Internet, it's hardly surprising that softwere outlets are popping up all over the White But If you're looking for a particular title and you want to find the best deal gut Ihern Bottom Dollar (www.bottomdollar. com) can do the work for

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### In the Works >

# M.A.X. 2: Taking it to the Max

# filled with new factical chall lenges for players to hurdle.

The story continues where M.A.X. feft off: the humans in this world are petitioning to join the Concord, a galactic united nations that gives MAX technology to those who join. MAX technology consists of transplanting the brain of the species into vehicles, thus allowing faster and more notdise control.

The sequel builds off of M.A.X. (Mechanized Assault and Exploration) by offering real-time corrector in original to the original turn-based and simultaneous turns systems. The thing that gives M.A.X. 2 an edge over other games is its terrain modeling. The landscapes during games(ay are

as good as can be portrayed in 2D, almost on par with Topu. Assessment. The use of parallax scrolling, which moves

TWISTED METAL 2 If you've been litching to get your hands

on the popular PlayStation release Twores Mass 2, it's now posibility for the PC Herdware appeleration has been added to the PC version, but sadiu the graphics don't look any better Otherwey. The game is everthelithe same on the PC as 4 is on the consolic Unfortunately, leviboard plan



higher elevations at a different speed than those at lower elevaflons, is the game's most compelling terrain feature. Units on high ground appear closer in the top down view For those extremely precise moments, M.A.X. 2 also incorporates a threequarters isometric view that gets you doser to the bettlefield. Yet, in this age of tactical techrecallty the folks at Interplay haven't left out waypoints, line-of-sight. non-scripted Al, and advanced order options

such as Guard Units and Seek and Destroy Although M.A.X. Iras not as well received by players as it was by ed-

tors, M.A.X. 2 looks as if it might detiver enquals excising gamentay to book fans, as well as critics, this time ground Look for it in late March ... Tabsin Shamma

board won't accept more than two key. inputs at the same time—a precessiv when you need to turn, fire, and accelerate. See NOVE TRANSFORM THOSE THOSE STATES

Sony Interactive, (809) 428-7794 WARM SATISFACTOR COST PC CO-ROM

VIRTUA SOUAD 2 Originally dubbed Verua Coe 2 m

the arcades and on the Sage Saturn console. Virgue Screp 2 is a polygonal shooler Although the game ofters plenty of John Woo's selection, the entire experience is over oil too spon iffers are only three

proves difficult at best. Sometimes the key Quest may scot at the mability to go when over they want, who never they want (VS2 Fea. tures normiteractive game advancements. but the commons corry & move action that navingate this game hosp set to be explicated in a first person sheets -- Netly Rickards

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In the Works >

# Die By The Sword: **Savage Swordplay**

E Br THE SWORD will bring the third-person action of names such as Tour Ruces up dose and very personal The game casts players as one of two sword-slinging heroes hacking

and slashing their way through cramped, winding dungeons filled with orcs, ogres, and the like. While them are some puzzles and jumping sequences. the focus here is squarely on combat,

Power-ups and potions are scattered throughout the funnels, but there's just one meapon for players-the sword-and you'd better team to use it. Instead of simply asking players to aim and mash a "fire" key, DBTS really tries to place

that award in your hand, offering multiple, complex control choices for key board, levstick, and gamenad for a total of the different options. A move editor

allows you to create and save complicated custom attacks All of the polygonal, full-3D monsters have individual attacks, adding to the challenge. Skeletons dance and somersault through the air

three-dimensional Japanese animated-robots in

GoMos. The energy is a group of 3D alien creatures.

diminutive kelcolds leap buch over your best backhanded slashes, and cores exploit their superior reach to pound you into lefty. As with Activision's Normwe Crextres, DBTS allows you to lop off the limbs and heads of your adversaries, and will

even keep track of your dismomberings in the game's one on one arena combat mode.

-Appart Colley



COMAN developer Copposits plants that if will allow montitors A team of International humans to react differently according to how you play the is being readed to guide a group of game.--Aften Greenboro

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PELIN

adolp of bruces professi lety peryment no tred Players controlling one of two different rabeltypes must use strategy combined with frepover in a battle search 81 base monsters and Innumerable monster sports. Kayboard control is perficularly non-intuitive, the level design could use some work, and there are numerous. digging problems with enemies walking Drough buildings. While monster All appeared

no come amovestwe from an other action lifes.

# Some Say Role Playing Is Dead...



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In the Works

### Sanitarium: **Insane in the Brain**

move and TV show plots, Switcher

within of a cay accident. You wake up in a hospital and find vourself with a bendaged face that could

be streight out of Davkman It's the kind ot hospital where no one bats an evelid at the sight of a guy testino his head

upon the val in constant rinthm And when

you start tolking to children with decaying faces and two mouths, that's the cur to start worrying about your sanity

Sweappures the latest advecture game. from DreamForge (CHRONOMASTER), in which you find yourself searching for the most

identity. A deeply disturbing and surreal mystery unravels as you travel to odd loca-

tions disping uo memories of your nast and trying to discover why you're here The alpha / nizwai only lei me go as far

as a deranged

lown full of grotes que children Cleannetts, the actual Joyn where DreamForce is based), but the company sais that when the game is firshed, your journey will take you to an Aziec temple. and perhaps even to Hell

and back Switzeum plans much like a standard adventure game, with icons for look, talk, and use/pick-up. The game contains a subtle sense of humor to counter its dark, disturbing almosphere. Adventure gamers should keep an eye out for this one -- Throny Novem-

### PLAYING LATELY

CGW Survey

1. Chilization II (MicroProse 2. Jodi Knight (LucasArts)

7. Duko Nukem 30 (30 Re 8. Rud Alurt (Nestwood/Virgn) 9. X-COM: Aponalypse (Nero

### PC Data Best-Sellers

Riven: The Seguel to Myst (Red Oct) Barbie Magte Hate Styler

Myst (Red Orb) Microsoft Flight Simulator 98 (Microsoft

20TH CENTURY TRIVIA CHALLENGE

American pag culture was obsessed with England even before the advent of the Beatles, so an Anglo centric trivia partie makes sense-- on the surbox. Sir Fisch should have noted, however, that own

Redokey Systems declared to release as "Lining Jaco" on these shores-and Treve Coulding is anything but You Dow'r Your Jick Title constard rotter

word Rebby ho, instead -- Recy Colorson 59-700b. (215) 292-5632 www.slr-tred.osm Win 95 CO-ROM DESCENT TO UNDERMOUNTAIN

The search for a good Dangeore and Dragging rate playing game continues, because Interplay's Descent to Uncorrecurrent is certainly not it

makes the smale commentary of Jick's hosts seem.

recall the harrid multimedia of PC Tevre, Pursuit.

Uniturns uninspired, and trivial in every sense of the

master of ceremones ("Scores and Jam at the ready!") With apologies to the hard werking descript average, and the buy Moviding style clies. design feath. Frits game completely missed its mark.



The graphics look two years old, the seand is incorsis tent, the monster enimation is stilled, and the performanga is sizw. Witat is good about Ukssansanan?

There's more monster interaction than i'd anticipated This could have been at least a decent party if intensity had released it on time—a year and a half ago—but today, it's not worth your time or money-Elice! Chin Interplay, (714) 553-6655

prevalatorales com PC CO-ROM

 $\Lambda$ 

Action and Strategy

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The Boundaries Between

An innovative menu system integrates troop and resource management for full control from within your anti-gray vehicle. Screp/Pilot Meters: Both are a resource. Gather Scrap for your unit-building Factories, build Barracks to add to your supply of pilots.

cower to your les, Gun Towers her energylve units. to collect valuable Scrap. Gather from scrapfields or destroyed units on the battlefield.



Actual Screenshot. This devastating, long-range defensi unit is powered by the subscrable

A topographical 3-D radar display your base location unit piscement, field of vision an Grizzly Tenk: Configure a Grizzly, the key American tank, right on the battlefield. Spend resources to reconfigure yo vehicle's weapor on-the-fly in the midst of bettle. Nav Beacon Camera: Set up way-point e attacks or for surveillance curposes



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# PREVIEWS Your Best Source for the Hottest Games in Development

# **Just Man, Muscle, and Machine**

# Papyrus Brings Back the Ghost of Grand Prix Past

over the exist with ARC's Who there of Segreb In the United States, Permit Jones and A. J. Figd durse's to diministrate all long in the greater exist, the vector of Formulan Longon and the Jan Formulan Longon and the Jan Chill, Joshen Rind, John Shawet, and the Garberg dursed on the selection, greating exist covered on turners, Central America, South Marca, and the U.S. The cere in his not dissention destings. Devices when they are of the Section of the Longon Central America, South Marca, and the U.S. The cere in his not dissention destings. Devices when he was a section of the Central America of the Marca and Central America.

he year was 1967. Salunday after-

the most nation ratios from all

open-cockets racing with Death as your coplets. It was man, muscle, and machine dueling for supremacy.

Now. Raynus invites Baby Boomers and youngsites alle to selve the days before engineering was king—when razing had about if the utilized Disvelvior bater of survived of the thissel Glown Piec Loovice (GPL) is unlike any rearing game you've ever encountered, and may well tale the pole position with better graphics, more appraised by any acron parties to other

SEMBLANCE OF THINGS PAST

GPL simulates realities that have never before been simulated. Every law has its own obseics.

ing cor day you

you't have to deal with the potential samout when the other trea are spirring at different specids. This tre models factor in all the things you thin the world—hospies, fenors, benness, concrete wealth, genet, and so on in fact, if you drive off the road at Zinayoori in South Africa, our might discover something you've never encountered in a roading sim before sand laps.

dependent upon fire heat, the pressure, the

position, speed, rotation, and road surface. In a

If your right rear live, for instance, is resting

on a wall, you can drive right off that wall, but

collision. It is even possible to get the wheels

interlocked with those of other cars.

encounseted in a mong sim netwer sand rags.
This is satisfying enough in the Formula 2
and Formula 3 cars, in which you can often
hrottle full down and use the stearing to shide
through ourses, and in the sheet cars that you
sale out to learn the track. However, thirties got
very wild in the Grand Plox Oromitus & cars. With

of bins sometimes isseed through three moss. model. This affects not only the cur's handling. No one would think of such a fining today it was but even the way such simple graphics as smoke may look. The HIN THE COCKP





LOTUS SHOWER Optional camera angles let you check out your latest sparout and the realistic trail of smoke as you struggle to keep your Lotus/Ford under control

more than 400 horsepower, these monsters can sein at any seeed. Recovering from a sein by bearing down on the throttle isn't nearly as easy as it is in the other cars. For pamers like me, the chance to drive a Bratham, BBM, Easie, or Lotus from this era is a dream come true

### EAST TRACK

GPL also brings new standards in track modeling to the nears. At the time of this are view, the following classic tracks had been supcessfully licensed for use within the game. Kyelami, Mexico City, Monza, Mossport, Rouen, Soa, Watkins Clen, and Zandyport, It was not clear whether Nurburgana (roughly 16) miles of wicked road course) would make it. into the came, but courses file Sea Rouen. and Zandvoort-very long tracks with lots of altitude changes-are extremely delightful for masochistic, depending on your skill level) to drive Even straightforward courses file Morga have degrees of detail. The seasonal foliane. and accurate sponsors, that add to the experience.

Getting licenses for many at these tracks has been a nightmare. Some of the configurations no longer exist. Further, many of the European. towns and villages didn't really mant the courses. mapped out as accurately as Papyrus planned to execute them, for fear that tourists would by to match Grand Prix speeds on those old roads. Fortunately, Papyrus' diffeence is beginning to pay off. For example, the record lan at Sea in

1967 was 3:28:30. The tastest Spa lap done in GPL to date is 3:30:00.

### WORLO-CLASS HOST

One interesting fact in the way Papyrus has been developing the game is that, even in the single-claver mode, the come engine treats the player's machine as a server. In single-player mode, the Al is handled as though it is another human competing on the player's host machine.

This design decision has slowed development. The problem is that the game is trying to run a real-time world, but it is now broken into disparate parts-each separated by bits of time. Each portion of the world has to make cuesses. as to where the other players are. So, such factors as collisions are problematical. If those quesses don't look right.

it burts the experience. and looks worm.

Latency compounds things. Fortunately, the team seems to be getting a bandle on these nmblems. The design decision

also affects the way the driver Al is being developed. All cars use the same engine model as the camer, and they actually shift cears. Some will handle tracks clean and fast, much like Jim Clark, but the alporithms will factor in plenty of opportunities for mistakes so that drivers won't have lap times within a tenth of a second per lap (as in current) All drivers), and you'll have opportunities to make moves. Further, the new Al module will have lots of tunable parameters to be made per driver. Some drivers will heng their car out by being more appressive with regard to oversteening, some will be clean in driving, and some will appear to take questionable chances in certain shiptions

At the time I played the game for preview, we could play thu Tiplayer over the Papyrus LAN. Some of the collision parameters weren't make complete, so we could get caught in fences and stuck in walls if we spun out of control. In fact,



K THROUGH MY EYES If an All driver is competing, you can actually eer the race from his cookpit and see his arms and hands move as he struogles with the same shifting and steering problems you face.

### **PREVIEWS**

some of the crashes were spectacular, with case seeming and drys in the profession for family. After one such cases, we appended the institution of the control of the cont

### VIVE LA DIFFÉRENCE! Some of the differences

between GPL and other racing games involve design decisions, while others are strictly related to the eas. Pagyus doesn't believe in onscreen course maps. They're not realists, and they are both dist

not realistic, and they are both distracting to the actual driving and costly in CPU time.

actual oriving and costly in CPU time.

In ferms of setup, the compounds do not glay a robe in the ear. In 1967, ones were all pestly close. There weren't the same kinds of tade ofts as with modern trea. In 1967, cars with in or miles lighting the care. Some encourse.



is running, fuel is being consumed, so this is checked constantly.

sumed, so this is checked constantly.

This are also clidiff use felemetry. Right now, Payrus is using a telemetry model to debug the game or to plot distance around the track via spend or lateral G forces. They'd like

to leave the tetemetry model in as an undocumented feature, but this could create a quality-assurance problem.

During the '60s, all cars used Double-A arm suspensions, but each car has custom parameters for roll, diversquet under braking or acceleration, camber curies, and so on However, untilla in

the present day, these were built in by the manurbatures, so the gamer month set these. What you will be able to adjust in GPL includes spring rates, shocks for bump and rebound, the pressures, androlf ber stiffness; brake bas (pockpit adjustable), differential settings (innited sinc differentials some station.

suspension parameters, such as camber and toe-in; and possibly some engine parameters (Justing for a high-footput, twisting road course versus high speed setup), steering ratio, and open ratios.

ANNA 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1888 - 1

ETNISH LINE

FIRSTAL USE.

Genero Pera Lizanose Docis lies Per pole qualfer fra al of 1988. I dires invendes vasuals,
and the pera of 1988. I dires invendes vasuals,
and the pera of the pera of the formodels. When the pera of the formodels when the pera of the pera of the
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If GPL provided only that nostalyla, it would be enough, but combining the glorious nostalga with the latest amulation technology takes the checkered than. §



were thirdler than others. The amount of tael with which you start a race varies, and you don't have to choose your buels. As buel is used, however, the car's center of mass changes, and this may create under- or oversteer. This weight change doesn't occur merely at critical insulance, either Winnerer the encine at critical insulance, either Winnerer the encine.

# iF/A-18E Carrier Strike fighter

# THE WORLD'S MOST SOPHISTICATED FIGHTER

ály tipa mustoppabla láfa-184 BARRHAR STRIKE FIGHTER Tauturing ha maraipha caallam or ha fattoli Campaign Syst

arlety of true-to-life naval aviation missions

active a ckpit makes it a b

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natch and Capture the Flag place of a







# **Big Bird**

### Jane's F-15 Is Poised to Dogfight FALCON 4.0 for the Title of Top Gun

### by Denny Atkin

rom every indication in the beta version I've been thirm, Japa's F-15 will not only satisfy hard core flight-sim fans, it will blow them away with its realism. Driven by Andy Hollis (the man behind the Laurany series', implemented by a team with such titles as F-15 STREET Evo. I III and F-14 B rev Derences under its belt, and critiqued by former and current F-15 pilots. Jane's F-15

promises to be an authentic, immersive experience. But if you're not an expert fighter pilot, or you're more interested in doof-online than in learning the ins and outs of radar systems. don't despoy: F-15 is fully configurable and should be accessible to the complete power.

### HARD-CORE COCKPIT

Jane's F-15 simulates the F-15E Strike Eagle for "Mud Hen." to many Air Force priots), the strike highter version of the aircraft. Although charged primarily with oround-attack missions. in Operation Desert Storm (its combat trial-byfire), the F-15E retains the air to air capabilities of the earlier pure-lighter variants (called "Albinos" for their lighter paint schemes) and can delend itself quite ably in a prich. White the plane wasn't used as a tighter in Desert Storm due to the nature of the air war, its pilots practice air combat and it could easily fill that mic in the future The F-15E is a two seater with the pilot con-

centrating on flying while the back-



TARGET You can track targets with a fully functional virtual cockpit. or use the Www.cs/An Wevece-style numeric keypad views.

targets ground weapons. For the sim, Jane's has simulated both cockpits. The front-cockpit instrument nonel has your hearts up display. three MPDs (Multi-Page Displays), and the Lip-Front Console in the rear seat you'll find four more MPDs: for the most part you'll use the berieses) position for quick access to the intermation on these additional MPDs, which can include rader, armament indicators, a factical situation display, engine data, and infrared and weapon video. Although you do the work of both creamembers, your wizzo (weapons sustems officer) will provide commentary and systems updates during the flight.

Jane's has modeled the systems with exacting detail. Air-to-ground radac for instance, teatures RBM (Real Beam Mart), a fast-updating, low-resolution radar for viewing upcoming terrain: HPM (High-Resolution Mas)

SHT FLIGHT As in real Desert Storm operations, you can nt on plenty of most missions. As time passes, shadows well engthen, the sun will set, and darkness will gradually falt.

areas in preater detail for targeting, GMT (Ground Moving Tarpet) mode which displays no terrain but can locate moving vehicles within a 32-nautical mile range; and IGMT (Interleaved GMT) mode, which superimposes GMT tarnet data over the RBM. terrain man Archair. systems are modeled with similar detail. Symbology, operation procedures, and carefulties of these radar sys-

tems at how an author-

mode, used to view

tic feet. And don't worry about learning dozens of keys to take adventage of these capabilitiesyou'll set up your systems and weapons using your mouse to press the builtons surrounding the MPDs. The meny systems in the real plane are tairly easy to follow, and the fearning curve. isn't too touch.

More challenging for many to learn will be the realistic flight model, which is as big a quantum leap over provious sims as FALCON 3.0's was in its day It's so touch to master that I've lost control of my plane in dozens of new ways.

### KEEP IT SIMPLE, STUPID

if you prefer quick combat, you can install the name in "Casual" mode. This simplifies. things dramatically. You now have a fourkey weapons interface (change weapon. change farnet, fire weapon, fire cannon). simplified radar displays, and predesignated onmary targets



FLARE FOR COMBAT. A Strike Facili drops a flore in an attempt to distract an incoming missile.

In addition, the flight model is simplified.

sate-site on G-limits on crashes and your place

In Casual mode, you'll start and end mis-

mode, you'll be able to fly the full mission pro-

There are no weight effects on the plane, no

is loaded with infinite fuel and a rearm key.

sions in the air, near the action. In Expert

tiles. For longer missions in the historical

there's plenty of renky value. because Jane's has included random elements docations and probability of appearance of various units) and a wide variety of potential mission. sequences If your squadron does well, you'll get more challenging missions, just as in real life. Targets will remain destroyed between missions. tas in real life, again, they'll eventually be required), and you can optionally enable resource management.

### UNDER THE SKIN One additional element will

enhance replacibility: the inclusion of a mission builder of unprecedented capability. You can drop units onto the map to set up a quick combat situation, or you

can uffize stryfornness, conditional situafions, and the full depth of the mission engine-this is the same toof the design. ers used to create missions. You can create



able to fly cooperative missions in this version. (but we wouldn't be surprised to see that capability in a secuel). If you've played either of the Longson games,

you'll find many of their bells and whistles here: detailed realism options, fully configurable keyboard layout, and massive amounts of documentation on the averaft and how they're employed in combat. The interface here is very drag anddrop oriented, and you'll be able to perform many operations more quickly and easily than in the Louseov games.

The graphics environment has much of the look of Lovesov 2, with both 2D and 3DN Voodoo support (Direct3D) support may follow after the game's release) Frame rates-all-importent in a jet sim-are

you want a sim in which you can gradually crank up the features while you learn to fly, you'll definitely want to give F-15 a test





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industry's most recent awards from PC Magazine, PC World, PC/Computing and Boot, and ATIs partnership with the top ten OEMs. ATI's ace is our award-winning XPERT products available in both PCI or AGP. Gamers go berserk over XPERT@Plays 3D features and performance Twout and video playback. Not to be outdone, XPERT®Work delivers maximum levels of business productivity with industry leading 2D, 3D and video acceleration. And don't forget to add on ATI-TV, ATIS TV tuner card. Everyone loves a winner - and that's ATI.

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# Part 1: 3D Behind the Scenes

ofcome to the second generation of 30 games. We're past the stage of colving and aating just because a game heppens to run on our 30 for Pendition card, the days when a smoother frame rate and a smoothing out of trose blocky poies were enough to justify our 30 card purchases. As the market matures, we're starting to see games in which 30 July enhances the experience, providing scarter mortisers, pitchorealistic fighter jets, and explosions that would turn a helphywood pyretechnics expert onew with very province power nown with very province power form with very province p

How 3D Improves Games, Why 3D Gives Gamers and Developers Headaches, and How All Those Little Polygons Get in There in the First Place.

by Denny Atkin

But while games have gotten better, this generation hasn't brought a cure to the headaches associated with 3D. You may bring home hot new 3Denhanced titles such as Loycatov 2 or Quest II only to find that they run in abeliated, lerky 2D mode on your state-of-the-ort All-In-Wonder 2 3D card. Dr your new flight aim can't houre out that your fance 3D card uses AGP to store texture arrichics in your computer's main memory, so it limits you to a blocky 512x384 resolution instead of the amouth BCDx6CD the cord can actually produce. Add drivercompatibility headaches that give old-time DOS game tass a frightening sense of déjà vu and make new garners wonder if they understood the meening of "plug and play," and you begin to realize that all is not yet well in 3D-ville.

blo why can 3D be such a pairs' When will it better herbisch-fresh Whet kinds of smastra effects can we oped in hours 3D games' Well protected in bours 3D games' Well protected in bours 3D games' Well protected in bours and bours' a display and could be a summer or when games of the could be a summer or when the could be an other or when the could be a summer or when the people better the properties of the programment printers that makes the product of the programment printers that makes the programment printers and the programment printers that makes the programment printers and the programment printers and the printers are the printers and the printers and

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Most of the 3D-related difficulties that face both garriers and developers bed down to standards. There's an old adage popular among programmers: "The great thing about standards is that there are so many to choose from." With 3D games, problems come from not only the numbar of available standards, but also the different takes that various hardware developers have on these standards. Today the majority of games are programmed for Direct3D, the ac-called universal standard; for OpenGL, a standard that originated on workstation-level computers and is now popular in games based on the Quine angines; or Glide, designed specifically for the 3Dfx Voodoo chaps. On some cases, garnes are programmed for both Clide and Direct3D.)

But in the beginning, there were no standards. Microsoft had acrounced that it was working on supporting 3D in Windows 95 through its coming Direct3D, but the hardware and comes were ready long before Direct3D was. So, various card makers developed their own 3D APIs (Application Programmins interfaces). The most notable of these was the Gide API for the 30th Voodoo chipset.

"Gide emerced when there was no Direct3D." savs Andy Keans, vice president of marketing for 30fr. "It was the only thing out there. Its origins were in the arcade market." However, Glide ion't

# WOULD THE WORLD'S Largest Chip Maker Settle for Second Rate 3D Graphics?

There a certain company in Stitice Valley Barroos for advancing the capabilities of the PC pitations with the reducity's best microprocessors. In fact, it is far and away the vood stades. They state the thought so and expectation on the quality of the bechnology they part mode in the special part PC. Taturally, when this company decide to device a graphic scape, it is no surprise they particularly with Real 3D to help take quantities performance on the PC to an evient. Will you see a dramatic change in the graphics quality and capability for scorropart? You best. And feater than you might imagine.

really an API in the traditional sense; it doesn't provide sophisticated functions such as you'd find in Direct3D. Instead, it's a "chip in software," grwng program-

mers an interface to draw things using the Vector chapset. Because this "down to the metal" method was very close to how programmers were accustomed to writing graphics routines, Glide quickly became popular with programmers who were converting 20-only programs and beginning

to develop new games. Glide's popularity wasn't hurt by the arcane techniques necessary to get decent results out of the version of Direct3D that shipped with DirectX 3.0. In fact, it was this poor design that resulted in the adoption of yet another API. Sticon Graphics'

DoeeGL for the 3D version of Duver "DirectX 3.0 was homble," says id Software's John Carmack "I sport langer doing as untinished port of the GL Quies code to Direct3D than it took me to do the original port to GL from soft-

were rendering. "DirectX 5.0 has improved things quite a bit." Cannack adds, "and DirectX 6.0 will samplify yet more things with automatic texture management." Still, Cormack removes a proponent of Doerott. "DoneGL is the usebility target that 030 is sheeting for," Conmack says, "I am more productive and more innovative working in OpenGL on NT then in

D3D on (Windows) 95."



## Performance Anxiety

Davelogers haven't standardized on Direct3D in part because of the capabilities of the other APIs Marry developers find OpenGI, more usable, while others and Gide lets them use tamiller programming techniques. But there's another reason. Although Direct3D is a "universal" API that can support all graphics cards, all graphics cards don't have the same leature set, and there are even amphics cards that "liv" to programs about what capabébas they do have in order to score better on banchmarks. The result is that despite Direct30's universality, developers must still test on virtually every kind of 3D card unless they want to be restricted to a very limited aubect of features.

sharred by all cards "Direct3D is universal in the sense that every consumer 3D card has D3D dovers, but that's about as far as it goes," says Doug Kubel, wce. president of technology for interactive Magic. The company found out just how veried driver support was when it released F-22, one of the first flight sims to take advantage of Direct3D. \*From the start, you need to spend a good deal of time unit

keeping up with the newest cards, and even more testing with all the latest drivers." Kidel explains. "The amount of time you asend supporting apecific ceeds depends on how well you want to support them, parhens you could spend as little as



namic lichting and aloha blanding

## AGP: Will It Help?

et new Perdium II systems step with an AGP (Advanced Graptics Port) expension sixt in addition to PCI state. ASP allows your computer to send data to your graphics card more quickly. and left office afore favours to your computer's male memory.

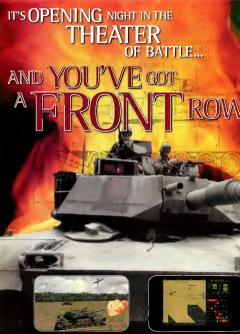
"Right now, ASP's main benefit is that it lefts texture limitations," says ld Software's John Cormack. Texture management can be a starrificant performance issue on cards with only 2 maps of texture morrory. Teaturing directly from AGP memory can make that limitation disappear, or AGP can just be used as a double for coard, speed PCI but to make the feebre download to the coard feeber? When graphics chips get faster, AGP will make for even greater benefits, Cannack says. "In the fairum, ACP's beceed benefit will be in proveding the command bandwirth recovery to set millions of transles a second out of real-world

analications." Still ASP is no consona to 30's cornect file, say Progres Duct. 2. dayakours Matt Shaw and Theodore Jump, "We sincerely doubt that single technologies like. ASP will aske many of the current headoches, even as they do help with some problems. We, as developers, and all of us as users need to keen in mind that 3D wides techapplications are levels in all I fearly new and will take a while to

mature property."



IG! Ringe Software's lacouring is one of the first n gamus to take adventage of the detailed tectures





## 3D Exposed

10 percent of your graphics development resources, but you won't get a result that will take advantage of what everyone has to offer. Even worse, between the limitations of the interface and the implementation of some drivers, it simply isn't possible to build a topy hardwere-orderendent version of an application using D3D. We've had to work hard to make the new release. of E-22 and our uncoming IEVA-18E Casesa Stees Reave take the heat advantage of DSD."

Paul Dunscombe is responsible for 3D support at Rowen Software, the developers of Firest Coars Boxo and the appointing MG Aury, "Although DSD is thought of as a universal API, no two 3D cards support quactly the same feature set." Durscombe explains "This means that even though only one version of the code needs to be written. It does need to cope with the fact that some features may be missing or supported in a different way. Each time a new feature is used, we need to consider how the software will look if the feature is not present. Provided that some care is taken over this, there is no reason why a good 'generic' Direct3D version cannot be produced. The only coding that we hope we will need to do in the future is to support new features as they become available in hardware. This support will still be through the Direct3D



Eidos' Bryan Walker, who's overseeing the development of Even Nextwees 2. Convento KLL, and Total Ancies, takes a different approach. "We're supporting Direct3D, Rendition's FRectine, 3Dtc's Glide, NEC's SGL, and ATI's Race APIs." Walker says. "We prefer to develop native drivers as much as possible for our simulations, since they provide better frame rates on most handware and allow us to really increase the content quality as a result. We'll use D3D on some cards If we have to due to time constraints or developer-support issues, but our goel is

to do the best we possibly can, and that's usually not by relying on generic APIs." This mux of supported features in various Direct3D drivers requires so much testing that it can really stretch out development time. South Randolph, a senior 3D graphics engineer at MicroProse who is working on Fin.con 4.D. says that the development team got a Glide driver up and running in a week and then tweeked # for

> another month or so. "On the other hand," Randolph says, "we had a Direct3D driver functional in about a month, and it still isn't working on all hardware. For instance, on 3D Labs chips only some textures get dark at night; on ledel's (740, more pet dark at night. We're beginn we can find some way that works for everyone."

The varied performance of different cause presents another meter problem, says Kevin Wasserman, a 3D programmer of Looking Glass. \*Portonmance is very unioven, both between different chipsets and between different drivers for the same chipset," he explains, "Sadiv, there are a let of cards and crivers out there that provide only hardware 'deceleration': especially, in our case, drivers that don't provide native DrawPrimitive



in an effort to less frame

## The Death of 2D

interface and so cannot really be called 'card specific "

So how long will it be until oil games are 30-enhanced? Divelopers differ in their openions, but most Suggess that the day is coming—and that if will come sooner for some genres than others. Bryan Walker of Edge feets the end is near for 20-card support in flight sime. "This summer should see the last of the unaccelerated flight-simulation releases from Fixtre and most other manufacturors." James Flerring, lead programmer for Looking Glass' Fusier Universe III, sees the charge coming scen for his company. "We gian to ship Fuser County our accomise World War II combat sim, as a 30" hardware-only game. And that's about two years away," he says. "Our next flight size, Fusier Unuserto."

III. sixted for 12 months from new will still support 20-poly cards." Lorn Jameson, lend 3D programmer for Kesma/s As Worson III, projects a similar firretable. "I could many games currently in development planning now well try to do both anymore," he says. There is last so much you can do with 3D acceleration that cannot be attempted in a software system.

that it will make the development too complicated to try to do both. I suspect we'll see the end of the software-only renderer in the corning year."

While the death of 20 seems imminent for sims and action games, 30 is priy just now coming into other perios. For instance, the developers of MGM interactive's Wesovers, which follows Mess as one of

WE PLAY? Wassess will be one of the first sturney gard support 30 cards, but the Priportance of the European market

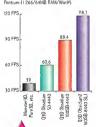
the first strategy games with 3D hardware support, see 2D support as being important. for some time to come. "Hitterk works a year or more off from going all-30 in America" says Pob Alvey. Worowes' producer, "but at least another two to three years off for the rest of the world." That's because Europe and other markets are penerally further behind the performance curve. Alvey seus that it was only by Christmas that developers could rely on gamers having

even Windows 95.

# SPEED KILLS

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GLQuake .97 640 x 480 "timedemo demo!" Pentium-II 266/64MB RAM/Win95



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## The 60FPS Question

Up to this point, the biggest selling point for 30 hardware has been increased trans-rate, which eliminates jerky screen updates in action genres and simulations. Smooth screen inclose—adops (frames par second) or above—does as much or more than deballed graphics to make a garne enteminant feel possible.

rotment set reasons.

Mile flora, director of markething for Wilchs, sees a point in the near future when the reajor 3D chips will all perform at the optimal 60°/ps. At that point, there's no reason to go faster Pointing to some of the 30°/x.

Woodco2 demos, Hara says, "Fifteen frames per second on Voodco2 lan't interesting to anytody. Tep into these terreindous fill rates and jock up the

quality."

And while many benchmarks measure friangles per second, Hara says higher resolutions and better image quality will be the features that set haseds asset in the frian. "Frohition

better faxture quality, along with the use of alpha blending (in essence, transparency) and 2-buffer, will have a more dramatic offect than more tri-

dramatic offici than more triangles," he says. "And 800x800 resolution can really help image quality." Bryon Pritchard, who is curre

Bryan Prischard, who is carrently working on art for los Scorm's Bussians, looks forward to this increased power. The begreat with for the facture? "Tim arrooce to be able to see more polygons to make characters own more realistic, and have larger fortures with more preal digith."

Constantine Hentzepouries, project director for Fuser Ususmitto II, is excited about the possibility of being the applicate land off the processor. "We'll be able to focus much more on design and intrinsions gamestry," he sign. "Some will be the 20 cockepts of yore—oscippis will now be their readed in the windows."

adding to the interceive baster. Puriling loods of planes in the air, on the order of 150 or more, having this and temperated marks, application, manthe plane, approach gown the little that the formit has plane, approach gown the little that the formit man requirements to fluor. Or load in Plane in proling will all post by fluor. Or load in Plane in proling with probability to a Personn IPSRR with 30 or handown. The is a school for all planes to severing down design areases that have been design to the mass all on the format down and in the mass all on the format down and the mass all on the format down and the for

There are still bumps shead on the 3D road, but, one firing everyone agrees on is that the results will be worth the pain. It's clear from talking to both hardware and activered developers tird, as far as 3D combified on owe sent seen extent will \$5.



unced and the toards improve, games will grow more detailed; this jots in the coming updated IF-22 exhibit much more datall than those in the original.

## The Future of APIs

Obtains the only company to provide a coulous AP to developers. Bedience, 74, IEEE/Geloople, and others have a suite, this Glob has proven the near greater the exception of the anti-other a coulous in mids. Bedience, the company 1600 it 35 depices has a despice questionary to the high company that the process of the company forcid with the high company that the process of the company forcid with continuous to reduce y souther as a spring, says midden Alles Han. He according to that the College of the College of the Alles thousand or immigrate the facilities. All section operations that such proteams of the college of the college of the college of the college of the through the college of the college of

The 1966, given the level of deep softmore aftern that we've getting access to, I don't think there's any excuse for a 3D processor not to support the Net Deviction Softman specification; "Hare asps. "We want to get to the point where developers can look at the Direction spec and program to it." "Although 30th continues to support its Gibt-PP, II doesn't push it is term."

of Direction. We're a hig COD proporate," says SDE's Andy Keene, "We have probetly five large the recommon so DOD then no Glids." One level of confusion may disappeer in a couple of years. Morecast and Silcon Graphico have arrowned that the capacities of Direction and Diperiol. will exhausly be neighbor a single APT called Farbrathist Most developers and belong the Confusion of the Confusion o a sirgle stantable is escensionly a good thing, lead Score, producer of SNA 80-27 Funess 2.0, apps, "It will be interesting to see where this mode up. I firmby before that it is always before to have competitive standards, as fine parties when violatily along and open us software manifestering a good to sear fine." I would have to third the other one op with a single 30 standard. Then we'd be an Be many of the confidency company as in which will be developed this would



DEADLY COBRA So-27 FLANKIN 2.0 is one of the only annou OpenSL games that's not based on the Ouver engine.



SUPREME STRATEGY, ABSOLUTE ACTION.



(Turn page for more details)



## THE MOST COMPLETE ACTION-STRATEGY COMBAT SIM YOU'LL EVER EXPERIENCE.

"Armor Command boasts an intriguing blend of 3D action and real-time strategy" «Kunskopan

"The graphics alone will knock your socks off!"

...a thrilling ride from start to finish."

MULTIPLE VIEWS

MULTIPLAYER
MULTIPLE SIDES

INTUITIVE INTERFACE

INTELLIGENCE WARFARE

FULL 3D

From the co-designer and producer of K-Wing Mand Tie-Fighter M















## Part 2: The Hard Choice

eeping your PC's hardware on the bleeding edge of technology is expensive and confusing. It seems as if every year there is a new piece of hardware that becomes a necessity if you want to get the most out of the latest games. Well, this year that new hardware is the 3D card. If you don't have 3D hardware in your PC yet, you're not seeing many of the newest games in all their glory. Choosing a 3D card isn't easy. Your choice will depend on many factors, not the least of which is deciding which games you want to play. But with all the 3D cards out there, and the confusion regarding different kinds of 3D software support-such as Direct3D, Glide, and OpenGL-how do you make the lump into the world of 3D without buying

How to Make the Right Decision When Buying a 3D Graphics Card

## by Loyd Case

Wolf, the article with help sup figure 1 tal. Our This is not another article explaining arrains 50 thems; that's been done already, lettered, the state is once 4 st30 cards from the perspective of the puzzed buyer. As I can attest from the wourse of email COSP letter of the subject, choosing the right card for your medics is a study shadinger. Read on your Third out why you want a 30 card, and what you what a 30 card, and that the the hardware you buy supports year foreoving parts.

## Why 3D?

Whether 3D and support, many genes are smoothly only or competent with very lest procure. Their is because displaying a fine-disease control under in the control set year. 2D consister requires a termination a market of neutronational procures and terminational procures and terminational procures and terminational procures and terminational procures and termination and procures that changes 15 or may be much procured to their account procures that changes 15 or may be much procured to their procures of the control procures and their procur

A good 3D accolerator contribute much of the burden of rendering the 3D game would from your processor. Its appreciated hemotive handles the table of placing objects on the convex, water have your processor men films for the factor tables and results in seacother gameplay. Games that support 3D cards bidding a 3D accolerator wors? It is a table give not games table precision 3D handlessor water with generally non-much taster if you have a 3D card in your purious.

set of tasks for even the fastest processor.



HIGH VELDCITY Cards based on the RIVA 128 dbp can hold their own against 30%-based cards, but they won't run Glide carnos

How much basher? Lists lake Dava as an examjee, Dea 2008Hr Pentium system with a closest 20 graphace card, you can glo CSD base to serve it best, except 16–17 (message per accord at 16–16.CE) costs in southern Nove if you and a graphics accelerator with a SDA coldy, such as the Company Invision, all amorbel risks to you shall company Invision, all amorbel risks to you shall be the property of the proprise per acceptance to the property of the proprise per acceptance by Quarter Rest, and the 20 cause is just an "Aumin times before" resemble stall it does not seek as

However, the 3D accelerated version of Ducc (known as GL Ducc) uses OpenGL OpenGL is one standard way of writin 3D software intre on this

## All AGP Cards

Aren't Created Equal

Dischair New Counter Insury problems
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Part of the blame for AGP contasten has with might be not fashing a stand on AGP features. Beautifully, may right that can run on an AGP but—whether it tries ubeastage of AGP features on the Came to casted "AGP contributes" to the market for an AGP card, choice carefully. Here are sering gliderings. AGO, choice to Instant Johnson, AGO, choice on Instant Johnson page 88

for AGP feature support Several graphics chips use the AGP bus as a sort of glorified PCI bus. They don't allow leatures to be stored in main memory (AGP lesturing) or take advantage of address multiplexing or sideband support. I've labeled these ACP 1x-only cards, but another term you might see is "AGP life." These aren't necessenty bad cards, but if you get one, make sure you get BMB of RAM. Chips that are AGP to-only include the Number Nine Ticket-to-Ride, Rendition V2100/V2200, and Vcodco2. Then there are these cards that add AGP texturing to AGP 1x speed. These still transfer data at BEMHz, but allow for off-card texture storage. These include the RMA 128 and Permedia 2. Finally, there are cards that fully implement the AGP spec. These cards include the Intel 740 and ATI Bags Pro

later). You can run GL Days on the most recent relesses of Windows 95 (DSR2 and later) using Windows' gwn software DoesGL driver but it would be painfully slow because it doesn't use the 3D hardware in your system To solve this problem, 30% has written a driver that translates the OpenGL soft were instructions penerated by GL Quive into hardware instructions used by the 3Dtx chipset. The result is much faster performance Similar "mine-GL" or "Quoc GL" drivers are starting to show up for other graphics cards Drivers that are fully compliant with OpenGL and offer the ability to actually customitre OpenGL (to alimited extent) are expected for most graphics

coatis the year (FME) is no the full driven intered to a "FOL", about the musikable clear the musikable that have the same of irrapy quiffy, Whitesis group the the testivate jurger, 100 graner purposes much better and more resisted upon the steme succession. And on the history personnel quarteris thrower can now test on these inspecentacessees the basis with relatively littles in performance. The inspressement in the quelty of the graphics on the pulse resistant pulse. If year graphics can be quite resistant pulse. If were seen Louison 2 in this filt, instrument coverage were seen Louison 2 in this filt, instrument coverage were seen Louison 2 in the filt pulse. It is not a province of the pulse were seen Louison 2 in the filt pulse. It is not the pulse were seen Louison 2 in the filt pulse. It is not the pulse were seen Louison 2 in the filt pulse. It is not the pulse were seen Louison 2 in the filt pulse. It is not the pulse were seen Louison 2 in the filter pulse. It is not the pulse pulse. It is not the pulse pul

allocate partial.

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county for the perform the betterform.

In a may for a good 30 excellents to hardwin, but

it would allow a 30-less system to a crowt.

The bottom line is that 30 accelerators can significantly entended the gaming experience by increasing the feature rate of which the game plays and creating a more enables within world.

## Non-Standard Standards

Okay, now you're sold on the idea of buying a 30 accelerator. Which one to buy?

au accommand. When it is easy to me to sury.

Henn's where it gets difficult, because various
games support a number of different, incompatible
30 standards, and you'll want to make sure to get
a card that supports the standards used by the
games you like to play.

The viruse SD standards are based on different SD APIS objection Programming Infermedies, the spitioner layer that programmers use to tell the SD acceleration Impossing with all SD. Differe are here provided PPs, and of a copie of somewhat consist on season and a spition of the spition and on season and season and season and Microsoft Differed SD, specific, programly developed by Stefer Complants, and Side, the provincial for the SD APIS SD

DirectID games have been slow in opening, but are now beganning to increase in murber Early wersions were poorly documented and performed poorly, as well. DirectID became usable with only DirectIX 3.0. DirectX 5.0 supplied better documentation and certorisemone.

## For All Gamers

Ourse of you was grown on a series your in group was any protecting. So containing your hast of private "The series in a fire green" will, the horistic that store was protected officing games will make contained uses of 20 yourself. When a leastly the a base of this will the farm to be series of the series of the series of the series of the social contained will be series of the series of the series of social contained with the series of the series of social contained with the series of the series of social contained with the series of social contained with the series of social contained with the series of protection of the series of social contained with the series of protection of social contained with the series of social contained with the social contained with the series of social contained with the social contained with the series of social contained with the social contained with social contained with the social contained with social contained with the social contained with the social con













[ACTUAL GAMEPLAY SCREEKS]

Media et anato witeram F.15 pillits to fut Junc's F-15 to the ultimate tists, they may a bit septimal. But their weight herwised for Junc's designer, stretchen to detail—a flager forch-no-clack coopet timberg, sweet forch company, cascading travers fine and force than perly accepted the analysis. Speed, most the only provided termines. They west, Just the food frequency.



WE BOILD SOM BY THE BOOK.

FAST AND FRIENDLY Cards based on the 30th Vocdo not be the absolute fastest out there, but with support for Glide, OpenGL, and Direct2D, they allow you to not the widest conce of software

During the interim, 3Dtx stole some of Microsoff's thunder by evenosizing its own 3D API, Glide, The performance of the 30th Voodoo Graphics chipset was well ahead of any other 3D chips at the time, so quite a number of 3D game developers were attracted to the chips because they could use their power to show off the developers' games. On top of that Glide is a "thin" API which primarily handles. repriesion charges instead of toxing to do everything. This allows 3D programmers to continue to work

with whatever 3D methods they profer. Meanwhile, the boys at id Software turned a cold shoulder to Microsoft and picked Doerfül to add hardware acceleration support to the Quoz. engine. At first, it seemed somewhat quiestic, since



To get an up-to-theminute list of the homest praches cards. check out Loyd Case's Ultimate Game

OpenGL was the purview of very professional-level 3D chars, but 3Dfs stepped up to the plate with a "mini-61." driver that included only the OnenGI. functions needed by O.w.s. All the mini-GL driver does is take the OpenGL calls used in Ouve: and translate them to the appropriate Glide calls At the same time, NFC and Rendfron were out beating the drum for their respective proprietary APIs. All of this has resulted in an enormous amount of confusion among the buying public.

Until the market settles on a single 3D APL you'll need to look at the games you want to glay, consider which APIs they use for 30, and then buy a 30 card based on this information. Be sure to check cut the chart elsewhere in this feature that details which APIs are supported by which popular games.

## **CPU Speed Matters** Designing and producing a graphics chip takes

time. The record time to market for a new chin probably goes to mindia's FINA 128-the chip word. from inception to production in around nine months. Chip designers have to use their crystal balls and decide which kinds of systems the pecale using their cords will have. Bear in mind that most graphics cords and chips sold so into new systems by big PC manufacturers, not into boxes

## **Top Ten 3D Misconceptions**

Voodoc2\*s.

A 3D accelerator will speed . up all of my 30 games. Not necessarily, First, the come has to be written to take advantage of a 3D accelerator Second, some of the first-peneration 3D "accelerators" actually ran more slowly than if the game had simply used the software. renderer.

The box says "301x," but 2, the game won't run in sopeterated made on my card? If a box has the 30th loop on it. it. may be designed specifically for gards based on the 30fr Vocecol Voodoo Rush chics, or it may be a Direct3D game that runs on all brands of 3D cents. Check the systern regularments fine grint canaluly to see if your card is supportedyou can't rely on the loco.

An AGP graphics card will run laster than a PCI card. Again, not necessarily. Some AGP cards are really just glorified PCI cards. Unless the card supports some of the advenced AGP fustures. (such as AGP textures), you'll see very little benefit over a PCI card.

4 averything cisa away. Maybe, maybe not it probably won't run any faster than a PCI Voodoo?. 30fx hon stated that the PCI but is set a performance bottlereck On too of that, the Woodcoop is an "AGP. He" chip, meaning it doesn't supgort any advanced AGP features, just the BMHz but, And, you'll lose the ability to add a pair of Voodoc2's to double performance-both have to be PCI cards. It's far better to get an advanced AGP 20/30 card and a Voodoc2-or maybe a pair of

An ASP Vootos2 will blow

5 - I'd like to apprade to AGP, but buying another graphics card will stretch my budget. since I'd have to thenw away my PCI graphics card.

No you don't Assuming your AGP motherboard has enough slots, your PCI graphics card will work just fine in it. Then you can sit back, wall for the dust to settle a.bit, and seck the AGP card that's right for you.

Quess again. Some point-of-view 20 is useless. I baggit one advanture carries heur started at the highly rated 30 cards. adding 3D accelerator support. There

and my 3D comes don't run any laster and look just the same. You probably didn't enable 3D accelerobae in the carno. Most carnes still defeat to software randering. and you actually have to tell the game's netup or preferences bross

to turn on 3D acceleration.

It seems II I want a Windows 30 card I have to pet a combination 20/30 card, and II I want to run DDS-based 30, an add-on card would be sullighted, is there an answer for me that will not comprenise the power of my existing card? Most games don't run 3D in a Window-they run tell screen. So

helred 2D card, especially if you use It for high-end graphics. Just get an mid-on accelerator like a 30% Voodoo Graphics cerd. I only play strategy and = advanture games, so I don't neof a 30 card

you don't have to give up your

are already two alredery games-Mrry and lecternor-that support 30 acceleration.

According to all the coma patter managines. AGP is totally useless and is no better than PCI.

Most corrouter massagnes focus on "productivity" applications, which ero necocolly oil 2D based ACP wor't help much with 20 work, AGP begins to come into its own only with games that have huge tectures and that understand AGP

1 can only buy a 30tx play Queer and Queex II. I'm sure the boys at id would take exception to calling Daws II a 30to came. Ower II uses CoanGL for its 3D acceleration; 30ts happened to be the first one cut with a "misi-GL" differer for GL Quive: There are Indeed games that support only 30tx, but there are also some very good Direct2d games, Also, OpenGL is now a visible option now that Microsoft and SGI have lossed and

made up

## **CPU Speed Matters**

Some new graphics cards are not performers in speech Pentium II rigs, but can't match last year's 30tx in your trusty Pentium 166. We took three graphics eards and tested them in the PCI slets of a P165MMX and a P2/256 to gauge their performance in each system.

30 Winbench 99: Pentium MMX/188 ATI xport@play 204 " Diamord Vintr 330 240 Diamond Monster 30 |217-

30 Windensti 98: Pentium II/288 ATI apert to play 451 Diamond Viper 330 Diamond Mensier 3D 1361

Percent Speed Increase in Pestium II System ATI xpert/molay Diamond Viper 33D , 202,0846 ..... Diamond Monster 30 100.30%

Parlomage Difference Retween Cours, P.188 6.30% ATI xpert o play Diamond Viper 330 Diamond Monster 30 | 0% (Baselins)

Performance Offference Between Cards, P2/286 ATI xzert o play 19 56% Diamord Viper 330 Diamend Monster 3D | 0% (Baseline)

on store shelves. Naturally, a chip designed last year would want to target the ASP bus and the intel Pentum II. Of course, the operating system would either be Windows 95 or Windows NT. There's an interesting side effect to this necessity. Devices of costing mid-range Pentium systerns may find out that the latest hot chip doesn't do so well on their rig. The RAM 128 and ATT's new Rage Pro are good examples. Both do very well or Pentium II AGP systems. Pop a PCI version into a Pentium 100, and you'll wonder what all the fuss is about, Using 3D WinSench as our measure, the newer chips run a lot faster than a SOfx accelerator (such as the Monster 30) on a 266MHz Pentium II. On the other hand, the RMA will actually run 3D WnBench 98 slower than a 30ts card on a Pontium 120. The one exception to the rule seems to be the Brooting V2201 chin, which has a very

even performance curve. This means that the graphics cord you might. choose for a new, ACP-based system would be different than the one would set to uncroste on existing PCI-based Pentium system. While the ATI All-in-Wonder Pro mucht beet rut a Monster 3D in your new 300-Metr AGP Portium I system, it will be a distant second in a Pontium 166 PCI box

## The Right Choice

So what do you buy? As in that old classic boardoams. Our. there's more than one solution to this mestery Let's break it down a lat-If you're unable to upprade your entire comput-

er, you can still pet noticeable results by adding a current generation 3D accelerator. There are a lot of charges, but if you have anything slower than a Pentium 200, the choice becomes a little easier. The first thing to do is to get an add-on gord based

on the 3Dtx Voodco Graphics chipset, which works in conjunction with the 20 card already in your system. Unless your primary graphics card is truly awful, this is your best bet-end could even delay that much dreaded system upgrade for a few more months. Later, you can add a low-cost, 20/3D accelerator. My current tayonde 30th accelerator is the Caropas Pure30.

If you do want to get a 20/30 card, then take a good look at the Rendition V2100- or V2200-based accelerators. They offer balanced performance of a wide venety of systems and are the only good but if you're on a very tight budget and need to find a card that sells for \$100 or less.

If you have a year last pystem-say, a 230MHz Profium MMX or a 200MHz Perfium Pro-a 3Dfs add-on card is probably still the first coffee to consider, But some interesting options open up, perficplanty if you want to do 3D in a weadow (for example, VRML on the Web or Morosort Fuser Savausor 98). The RAM 128 and ATI Rage Pro begin to share at CPU speeds of 200MHz or faster. The RIVA is: somewhat taster than the Rege Pro cards, but the





out. And, most importantly, a faster frame rate makes the game much more immersive





## ENVY

Envy is the lifth deadly sin. To envy is to cover, begradge, be jealous or otherwise resent the good fortune and success of another. Envy lies at the root of many violent crimes.





















## TGH and TAR NESS the prophecy

- 🜟 Lightning Fast, Real-Time Adventure Game with Dramatic Multiple Endings
- 3D SGI Art by world famous artist Gil Bruvel; if game screens were paintings it would sell for over \$10 million dollars
- Stunning 3DI 360 scrolling environment
- Absorbing level-based game created by Cliff Johnson, creator of Fools Errand
- Post-Apocalyptic soundtrack by the MF er-
- mmersive CD surround sound
- Experience the Seven Deadly Sion while you can!











3D image quality of the Rane Pro is slightly better However, RNA cards are dropping in pitce, and the performance is remarkable in Direct3D. You'll notice that Vocabo Rush cards, such as

the intergraph intense 30, aren't in my mix. First, I'm not too happy about their 20 speed. Second, the 3D performance of the Rush can be up to 30 percent slower in comes that simultaneously use alpha transporency and z-buffering (GL Quive

comes to mind). And I've had encless problems setting up and configuring several different Voodoo Rush boards. Simply getting them to work correctly, across a variety of computer systems, keeps me awake at night

The bottom line is this: For the hest performance on a Pentium system and the widest range of softwere suggest you should probably consider first purchasing a card based on the 30ts Voodco

chipset. Then look into getting a fast 20/3D card if your budget allows. Note, however, that if you are elanning a system upgrade in the next three to see months, hold off on that 20/30 card, You'll want ACP in your new system, so that PCI combo card won't be a good investment. (But the PCI-based 3Dfx Vocdoo card will conv over fine to the AGP system, since it's an add-on card rather than your primary video card.)

## Which Cards Support Which Standards? STB Woody 128 JRAN 128 www.stb.com Yes5,0 Diamond Viper \$30 (RMA 128) Rendition Bradina Dumond Steath II (Rendfler V2100) www.damondrim.com Diamond Monster 3D (30tx Voodco Graph www.diamardmm.com Diamond FireGL Pro Permedia 2: WWW.CEROPHISCOTO.com Commus PereSD (SDIx Venden Graphics) WWW.CEDODUSCOTO.COM POWEYER SO Macrox M30 (Power//R) WWW.metros.com Yes YesA s www.elsp.com ELSA Victory Erasor (PAN 128) \$197 CUDE www.hercules.com Horoutes Steerray 128/3D (SOfy Woodge Rush) www.horcules.com \$179 HMB, \$249 EMB wayw herouses com Have les Troller 3D (Recetton V2:200) Rendton Prechne \$129 KMB, \$199 (BMB) www.conditwists.com Creative Labs 3D Blaster Entrerne Plermedia 25 Mass. AS IS 1DEminrer ESA 128 Yes Wdeologic Apocalyses 30/50 (Power//R) www.videologic.com Number Nine Revolution 3D (Ricket to Ride) Intergraph Interse 3D Voodee (3Dh Voodee Rush) now intergraph com WWW JAZZELS COST Jazz Advendine Rush 3D (30th Voodoo Rush) Bendition Bradition Juz Distay SD (Rendfon V2200) www.orchad.com Orchid Pacintoous 3D (SDIte Vocation Graphics) CLIDE \$179 MMB, \$229 BMB www.sffech.com

## General support by 3D accelerator chins

Yes

ATLAN-IN-Wonder Pro (Rape Psia

Quantum 3D Dissellan 50 and 100

nVide RNA 128 / RNA Tudo	Yes	Yes	Mo	Y865 6	www.rwds.com
3D Labs Permedia 2	Yes	Yes	No	Yoshii .	_ www.3clobs.com
Pentition V2100V2200	Yes	Yes	Rendfron Preclate	Yes <sup>5</sup>	www.rankton.com
3Dfr Voodoo Graphics	Yes	Yes .	GLUE	No	www.3db.com
3Dfs Voceloo Bush	Yes	Yes	GLDE4	No	www.3dbccom
3Dbs Vnodoo?	Yes	Yes	GLDE4	Y050	www.3db.com
ATI Rape Pro	Yes	Yes	Yes <sup>2</sup>	Yes <sup>0.7</sup>	www.affech.com
Dak Warp 5	Yes	No	No.	None	www.gaktech.com
reel 740	Yes	Yes	No	Y88 <sup>07</sup>	moo leans www.m
Number Mise Ticket to Ride	Yes	No	No	Y89 <sup>6</sup>	tww./ine.com

WgA7

\$299 (4MB), \$349 (BMB)

\$705 Obsation 1005BM40

www.raxentum3d.com

Minu GV. not a 640 DoseGV ICD.

one picter games which used an early version of GLDE may not run

5" fx" means it's using the AGP bus only as a fast PCI bus ""AGP sectures" means the charicard can use main memory to store textures Vinty a few corner support ATI directly

## Equipping Your Hot New PC Okay, so you're in the market for a new computer-or

at least, you're considering a serious brain transplant by adding a new motherboard/CPU combination to your systern. First, if you're just moving up to a Pentium MMX. system to take advantage of plummeting CPU grices, follow our advice for an existing system. Get a 3Dbc-based add on card. If you're also buying the primary 20/3D card, consider a Rendition V2200 card (if you're getting a 200MHz or slower system).

What i'd really recommend, though, is to get a Pentium II system with an ADP graphics card. However, he aware that not all ASP cards are created aread lessa. the AGP sidebar). Some graphics cards can take full advantage of AGP's advanced features, whereas others simply use it as a somewhat faster PCI bus. This doesn't mean that an ACP eard that doesn't store textures in ACP. memory is a bad card-but it does mean you might want to get one with more memory on board. My picks include the ATI Rage Pro cartis, the RNA 126 cords, cards using the Intel 740, and the Rendition V2200 cards (sut only if they're equipped with BMB of RAMI. If you do have to mix professional graphics work with your garning, the Permedia 2 cards might work. Note, however, that most of these cards will work with Direct3D and OnesQL but only 3Dfx cards will work with Glide games.

## The 3Dfx Conundrum

If it seems as if the 30% Voodco chipset is getting the Flori's share of recommendations here, there's a logical explanation. The company's Chris API has proved very popular in certain segments of the market, such as samulations and sports names. Because of 30%'s early techrology lead and Microsoft's strumbles with Direct3D. many current 30 billies aupport only 30th. Game developers didn't really have to rethink how they did their titles. fary could just plug 3000's Glida programming interface into their randering engine. It gave them the ability to quickly port desting games.



## **API Sunnort in Popular 3D Games**

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	Blanch	Sept of	000	Money	S S S S S S S S S S S S S S S S S S S
Air Werrior III Interactive Magic Vicense	×				
Annered Fist 2 Novelogic				X	
Balance of Power Lucas/rts	X				
CART Precision Racing (Acrosm)	X				
Poscent to Understoutish Interplay				X	
F/A-16: Kores Graphic Scriptofors Corp.		X			Hendition
F-22 Reptor Hospitalisms Corp.		X		×	
F-22: MF Comp OD		Х		^	
Felcos A.O MonPress	X	î x			
Fitaht Sirvalator 98 //icroom	X	- "			
Flight United to Looking Glass	X				
Phine Come Bold France	×				
Flying Rightmares 2 Edos	X	×			Rendition
Forced Alliance Riscord	1	×			101000
FPS Ski Racing Serva		X			Rendtion
Fronter History	X.	X			
6-Pallos Prygnoss	X				
HKE-Lite Valva/Seesa	100		8.		
Hoavy ficer Activeson	X.				
History 2 Activision			X.		
IF-16 Interactive Magic				X	30tx Ohde patch available
Interestate '76 Activision				X	Eliroct30 patch available
Jed Knight Lucasites	Х				
Jeffighter IS Plet. Ed. Mission Studies				Х	
Longbow 2 Jase's Combin Smutations		X			
Myth Farms		X			DOD patch washicle for FWW 120
MSA Live 68 FA Scorp		ŵ			
Meed for Speed II SH /A		X	-		
MIL OF FA Soons		x			
MAL PRACTETY OF WILLIAM	Х	^			
Nightween Constarrs Accesso	×				Powe68
Populous III dulbao	n 1			x	Paraties
Per Pilot Done				"X"	
Quite II id			X		
Red Garas 2 Stora				Х	30 polich comine midyear
Sabre Ace Virgin	X				
Students of the Empley Lucysters	* X				

On top of that, the original Voodon Greekers choset had a commanding technology lead over its competitors. The technology glaving field is showing some of leveling a bit now, but the upcoming Voodoo2 chipset will requir that performance edge. If you want full support across the named of 3D cornes -- Deport 3D OpenQL and Glob-wou need to not a 30ty card. The good news is that even if Glide even-

1014 Olf-Rand Ratics 3a

Su-27 Fleeker Squad, Ddr. Ed. 331 orth Relder Fried forth Raider II Book Wing Commension Progress

> tually tades away as game programmers pick. one of the standard APIs, you will still have a proffy fast card

All isn't ross, though, Some systems don't have free PCI slots. Unless you're willing to deal with the hisadaches and performance geneties of Voodoo Rush, then you're out of luck for Glids titles. A more millior point is that a 30th adding rand only comparts followers SD This

Randition only: 30th palch in Works



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just gives me that warm and fussy feeling all over."

easy money and ... iast care."

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means if you're a Futer Securio 60 abclassolo, you probably want a fest 20/50 centimetrion card. Wargamers should sit up and take nodos, too, because it's very likely that 30 wargame these will want to do their 30 in a window—but their just a guess or my part.

To misk things seen man confusion, some genres that have the politic lego on the locar fixed support beth (bilds and Direction). Dith's F-22 ADF is one ownersh. Other genres with the 30th lego use only Devot30—but have city been related with 30th. So the self-beth for and-core gener is to get a 30th confort for unlengted witherse other graphics cond you have. And, you, a 30th confusion seep seep with an ADF orations and.

Il you're picking up a hat new ASP rig with a 335Mhz Pentium III, you might went to budget for end of the scon-to-ship cards based on the 30fx Woodco2 children.

## Loyd's Picks

Hain is quick unidown of the bottom line. Gamers belong to upgrade existing computers with 30 coasishing should first fook into adding a 300 case, auch as the Consque Periodio, Dismonted Montater 30, or others, Pick one of the add-on cards, not in Voodso flash card if you can help it. Then, leak vira upgrading your primary card. Pick a cord has booker will with your CPU such as the card of the

cord and soons were earn your Cru speed;
Prefered bupper from Sprimer should be by to subject for a fast ASIP
System—that durit four the subject for 500% as well, unesses you've
continent you wen't be amoning false wakes you've you've you've
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false false you false you false you
false false you false you
false false you false you
false false you've
graphics card in your system, you did'ng names tooomes a mather of
those rather than recessor. So

## **Web Resources**

There's a we thin of information, free utilities, and other niceties on the Net. Here's a list of the host on as

2Dfx resources www.xcodecedrente.com () is in a good source of news on 306 off in.

www.planetquake.com/gldeja/ thouse tensin frouses heavy or all thouse tensin side of useful intermedian on

www.cottcallyames.com/ New of a repro-coerate site less usered than

www.3dbmanin.com/ total of points

RIVA 128.

www.midtreeb.com/mountreme/
out (space of stillion and news)
into 120.

www.rhozoru.com (nother good)

of schools and information on the BLAC VID. popular production of the body Maria Interior

Net. Bhi of the members ectonism com/met/petk/ren

dition procured the standard or and another was bloomed and a section of the standard or and the section of the standard or and the section of the section o

Hade Pro

www.g.ceiti.s.com/SilconValley/ Harizon/8276/ Rood ex. com of time ton on All's newsal chip.

SS (No, Resily) www.tbrowno.demon.co.uk/sSwirge/

There are a on of WRGE cards on there, and it's also to see a good source of information on the war members of the VIDGE family.

www.rcal3d.com/primar/conteats html

www.fastgraphics.com/ Serr your ca find ANST (10 and a swaf of other late setting stilling. Letting fring market or

## New Cards on the Horizon

New technologies are on the horizon that will peak 3D performance evenfurtion. Here's the sixtary on three new ascelerator chipsets that you might word to consider if you've willing to make a little mide to crain the Jamp.

Rowed up RIVA

Sometime this summer, we'll be seeing carde that use the RIVA 128 Turbo.

The Turbo is an extracted version of the erignal RNA 128 used in the Demost Yope, STB Velocity 128, and a heat of other cerds. As with the origirial card, the Initia outpoint beth Discretion and OpenAL parent.

Whot's been enhanced? Spood, for one. The intermise of the other have been interestinate on that this 30 engine obsertif agent as much these stilling annual season of these is a been on the account of the certain of the certa

What's been enhanced? Speed, for can. The internité of the dely have been strennlind ao that the 10 angine absent again de much tiene string award winning for things to bepore. One key, much-respectate derhancement as the increase in maximum local memory to AMO. A RIAN Turbo card with AMB at LOCANYE SORAM would make a very vice AGP primary card in a new Pertium I laystem.

## The Steeping Glant Wakes Nearly two years ago, later out a deal with Lockheed Martin's RealSD dayl-

side to bring its handware acceleration technology to a consumer since point. The result is the Intel 740. The actual 3D performance will probably be about the same as the RNA 128, but the image quality should be before, due to the

use of the potential Phaspages. The 2D performance and Visit Agriculturation is the property of the property

## Mondon Baduy

The fact mass about the scoromy SDN before chapter is that eit to current SDN brocks directly as the contact that resulted with the necessor should be factor of the start of the fact contact that resulted with the necessor should be flash. Notice2 about a full insulps entire prospect, resolutions as to 100-4778, and the obility to fine secretif supplies of the SDN and the solution of the secretif supplies. SDN is distring that a single before 20 and will doubtle the performance of the original blood Clinible.

Other then the above, no may techuran have been added, But it's competible, it's last, and it about the sound to "A fact of anyone with a trane PC above. Although the chapter is expelled or whereign is mAPP or but, it makes no use of ADP textures or other advanced AGP features. Since 30th is suggesting that they PC been in not the bottlerock, then get a PCI version alongside a tast 2000 AGP cent is votal three and AGP version.



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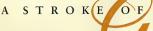












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more intuitive and refreshing.

Angle the front fac of the finishe to open or close the climbard set the curvature of the state.

Pal the source Bull to Male a backbook and fellowater like pools of the minds.

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whove the mouse forward and hid through the ball timing the release of the mouse buffor before contact to set the loft and backipic of the shot.





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## HARDWARE

## **Bye-Bye, ISA** unset and Audio News-As the PG 98 Gateway and other PG makers. Word has it that

specification solidifies, one thing is certain: Within a year, we'll be seeing computers with -- count 'emi -- zero ISA slots One piece of hardwise that's still mired in the ISA has is the sound and There have been a few PCI sound cards shrootne, but the Big Daddy of soonel conds, Creative Labs, has been holding off-until now, h

looks like we'll fruily have a PCI Sound

Blaster to grace our PCs. The question is this Will

it run DOS games in DOS mode? In an interesting move, Greative Labs has recently acquired keyboard and sound-card maker Ensonin, whose AudioPCI sound card has appeared in a mumber of systems from

Creative purchased Ensonia in part to win back market share that it had just to Eusenia selfine to austem mobers

ACP Nesses As more ACP enablies chites hit the market, including Intells ACP-only 740 chip. Pentium and AMD K6 users are feeling a bit left cut. However, motherhood manufacturers Gizabyte and FIC feet your poin FIG recently started shipping the FIG 2012, a Socket 7 ACP board using the VIA Apollo VP3 chipset Cambrie is using the new SIS 5591 chioset. Duc.

to the ACP mehitrettore, performance is an open. question, but, as always, options are a good thing, We'll be checking out these boards in the near future and beinging you the results.

7," on enhanced version of the Socket 7 spec for Pentium-class processors AMD knows that Socket 7 (the corrent spoket used to hold Pentium and AMD K6 CPUs inside your system) has some firsttations. The socket issue was brought to the forefront by Intel's new Slot I for the Pentium II. Intel has potented Slot L leaving other CPU makers sexumbling for alternate solutions as Socket 7 beating to show its use. Super 7 is interesting in two ways. It will be set arrether Socket 7 solution that will have AGP functionality; and it will give the CPU/s Level 2 (L2) cache its own dedicated back-

bus, meaning that the L2 cache won't have to share

Meanwhile AMD is hard at work on its "Super

bandwidth with the mon memory box HH-Conteast on ag 59

## Voodoo2 Coming Soon



doo2 cards are on the radar screen at last. A number of hardware makers. including Creative Labs and Jazz, have announced cards based on Vocation? Vocation? is really just an evolution of the original Voodoo card, with a focus on increased performance rather than new features. 30fx has added a full triangle setup engine to the base architecture. as well as the ability to support multiple cards

in a system (called Scan Line Interleaving mode, or SU). You can add a ear of Voodoo? cards to your system, connect them with an internal cable and nearly double your frame rate under supported games. In certain confouraflors. Vbodgo2 will also be able to handle multifexturing in a single roses on games that support it. Quisir II already supports multiteduring and DirectX 6.0 will support it as well. Microsoft has

added some tweaks to Direct30 in DirectX 6.0 to support SU mode.

that will said support for bardware peometry

Speaking of DirectX 6.0, it's about to enter beta. At present, there's no support for hardwere geometry acceleration, but there is support for burno mapping. And it's also rumored that

The 3D hotshots at nVidia. Bush from their success with the RIVA 128, are not standing still. They've morntly appounded the RIVA 128.

ZX, which doubles the maximum local memory to SMB, thereby addressing one of the key deficiencies with the RNA 128. In addition, they've streamlined the architecture and expect a better than 50 percent nomase in overall throughout. Look for RIVA 128 Turbo cards to hit the streets by midsummer Now that the dust has settled on AGP, lintel is hard at work on the AGP

2.0 spec. One thing it will add is AGP 4x mode, which will up the maximum throughout to 1GR per second. Couple this with very fast memory (RAMBUS or high-speed SDRAM) and the need for local texture memory in a 3D accelerator begins to diminish. However, we probably won't see AGP 2.0 motherboards until early '99. - Loyd Case

The said of the said to be a second of the said to be a second or the said	EI.N
RIVA 128 ZX	Q2 '98
Intel 1740	01 '98
3Bfx Voodoo2	01 '98
Cyrix Cayenne CPU	2H '98
Deschutes (400MHz Pentium II)	Q1 '98
440BX chipset (supports 100MHz system clock, 4 CPUs)	Q1 '98

acceleration--particularly lighting transforms



H+Continued from ag 80

Non-Intel X86 CPU Makers Unite (sort of). Three comperties are currently offering X86 CPU alternatives to bately Perform and Posttum II lines Oats AMD, and IDT/Centuur Uniontimately all three have a problem floating-point performance

The integer performance in the alternatives from all these companies' makes them competitive with Intel, but they all lag at least somewhat on fleeting-point performance. To remedy that performance problem. AMD developed its own small. extended set of floating-point instructions to speed up DirectX 6 Os software accometry accelerator. Initially it looked as though Owix and Centauz would go their own was in developing other sustruction extensions, but they have instead decided to use AMD's This is good news, in that it shouldn't muddy alreads: marky vesters as to whose same well run on whose 3D ohin The bad news is that it's still unclear as to whether these three CPU makers can agree on a common socket specification. Alresely, because none can use lately Slot L the motherhood market will become somewhat fragmented in 1998, and if the three cannot area on a common non-Slot I worket, the fragmentation will be further compounded. - Lord Case and Dave Silvator.

## ACRONYM O' THE MONTH

**XOSC:** Refers to the different Digital Subscriber Link technologies currently under development, letel has recently announced an initiative, dubbed Quick Web, with Compan, Microsoft, and all but one of the regional phone companies to develop a single XDSI. standard that will allow for downstream speeds of upwards of 1.5M bits per second-about 30 times faster than current 56K modems. XDSL is a promising technology because it should be able to achieve these speeds over existing phone lines.

## LOYD CASE . UNDER THE HOOD

## A Tale of Tech Support



Or, How I Learned to Kill Windows 95 in Order to Save It

and with the coming of a new year my thoughts turn to New Year's Resolutions, house, elective, taking down the holiday decorations and reststaling Windows 95. No, that lost one isn't an afterthought.

is early Jamuary as I write this,

In fact, I've been thinking about it a lot lately. Lest tors of emzil, as you mucht imagine, but I recently got a series of messages from one user that captures the essence of foutnesse. This particular user, who wishes to be unserned, was trying something we all go through at times. to get a couple of DirectX names to run. One was PACIFIC CENTRAL a DiscretX 3 ft come the

other was PANZER. GENERAL II. o DirectX 5.0 same. Neither come demands a high level of system not talking OUNX Il bese). Both comes are relatively bug free. Our frestrated user didn't have a

porticularly

proposal system.

other a Pontum 133, ATL3D Xpression. graphics cord, 32MB of RAM. About the only oddball component was an NEC CD charger, CD chargers can be a beadache sometimes because vou always have to be sure that the CD is in the some slot (street most chargers assum a fixed drive letter to each charger slot). Even so, the errors that this carper was getting didn't point to the CD as a

So naturally, he terned to tech upport-first SSI tech support, then ATI tech support. Both support mouns may him some suggestions, some of which looked useful. The ATI response, in perficular was quite detailed.

source of his problems

Unfortunately, the advice he act assumed a birth level of technical expertise. This user nortechnically think what someone like nw brothenin-law would do if someone told him to "toeste video ROM shadowane and/or video ROM caching to disabled in CMOS setup. and make sore palette snooping is disabled."





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NHCostment from no 89 wasn't happy with his tech what I could see, the support folks did exercthing they could Titoubleshooting obsesse and tricky problems is tough over the phone, and even more difficult via email. when you can't ask constions. in resitune. At times, however, exmes just refuse to nan

Sometimes it's the game's fault. I develop a twitch in nw left cychrow every time I think about trying to get HEAV Casa to no over a network Too many games are simply shipped before their time But sametimes, you just have to noke Windows

## JUST KILL IT

All neht, a comber of you are either stunned of this or caclifing with plee. However, I don't mean permanently ruking Windows: there are too many good Windows only games. I notom atmosting it and reinstaling it Windows 95 deterionates over time, as you set up and delete games and applications, download stuff over the Net, and install undates. At some point, the system gets sloggish and games that once ran splendidly suddenly blow up without notice Denny Atkin.



our features editor, has conscioused this on a number of occasions, and believes that priostalling Windows overy 6-12. months is a good idea. I concur, and here's how to do it.

Step 1 Back no your mytem I mean. back up everything. It may take a siftion florestes if you don't have a type drive or removable hard-drave, but it will let you go back to a known state if you get into tenable. (Backing up to a second hard.) drive is acceptable ) Do a file-by-file backup, don't use one of those "pertition. image" tools. Nest, make sure you have

all of the installation CDs and floories

for silvour applications Have the driver disks for all your hardware available, too If you're feeling ambitious, you can set up a directory on a hard drive or Zin drive. to contain all the drivers in their own separate folders. If you have the upgrade verston of Windows 95, make sure you have the original setup disk I from your Windows 31 disk set, as Whylers 95 will ad you for it during the install. Also, make sure you have all the necessary social numbers

SCANDISK with the 'Full' cotion, so it performs a fell surface scan of your dove. This way, of had spots have developed on the drive, they will be marked as bud and non't be used later. Next, define your hard dove (see'll do this once more, after

Step 2 Now that your stoff is all backed on, run

the reinstallation). If you're feeling particulady ambitious, you can even reformat your hard drive, but this is necessary only to die circumstances Step 3 The next thing to do is set up

your system so that releading Windows is easy. First, copy the contents of the 'windows' command directory into a diffearnt directory (since I don't have MS-DOS anymore, I copy all the files into Idos). Then copy HIMEM SYS from the Windows folder to the root folder. Next, if you don't already have it, create a

If you're a user of cards uting the RMA 128 chicset, do yourself a big tavor and head over to the RNV extreme Wish site. furww.midtaweb.com/nva conserved and pick up a copy of the RMA 128 Turok utility. It installs as a tab in your display control panel. It's perticularly handy for games that don't handle the



BMVs auto-MPman feature well. Just set the auto-MPman levels to zero. If you like to give

vouself a moment to chaose whether to boot into Windows or boot to the DDS prompt, just add the following commands to your MSDDS.SYS flex

## BootMenu = 1 BootMenuDelay = 15

The Windows 95 boot menu will appear when you start your system and give you 15 seconds to make the choice. Note that MSDDS SYS is normally a read-only file; you may have to change it to read/write by altering its Properties sheet

with the Windows Explorer







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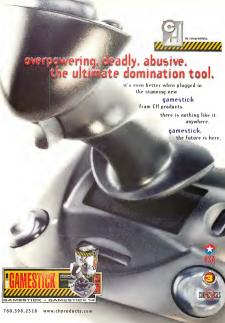
> > lext Generating

of heads, sever limbs and bring your enemy to his knees (literally). DIE WORD

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CONFIC SYS fle that has the DOS real-mode driver for your CD-ROM debut. Them reader more than MSCDEX EXE is leaded in your AUTOEXEC BAT file There are some other threes you'll want leaded as well. Here's an example of what the

Harbook Hoek Hoe

CONFIG SYS COS=high DOS=umb Device = c:\himem.sys Device=c:\cd\ataci cd.svs

/d:mscd001

AUTOEXEC.BAT: COdos) meedex eve /d:mscd001

Step 4 New schoot, When you see the "starting Windows 95" message, mass the FS key. Select "boot to the command prompt" mess item. You'll now be at the DOS prompt. Now, change to the klos directory by

Step 5 Take a deep breath Did and back no everything?

Now, to ensure that your CD-ROM drive is working properly under DOS, put your Windows 95 CD in and type "DIR D." (assuming Dr is year CD-ROM drye). If you get a

directory of the CD, you're ready to zan Windows. Type "deltree elwindows". (If your

Windows directory is something else. substitute that directory name ) Your hard drive will chem for a while and then Windows will be some Savor that feeling for a moment. Now change to your CD's drive letter, and

Follow all the usual instructions. At some point. Windows will reboot the asstern. When it does, press F8 at the "starting Wasdows" message and once again boot to the DOS prompt. Change the disk to loss and type "edit e lautoeure hat". You may find that

the marrier lime of an uncomment it or you may not be able to find the CD drive when Windows asks year this is silly and annowing, but necessary,

Step 6 Finally after a couple more peboots, von'll be back in a clean version of Windows. The hard work of installing drivers will begin. Note that users of newer motherboards may also have to restore their motherboard INF fles (this is also known as the 'FIDA' petch" and can usually be found on a diskette that came with your motherboard or computer). Restoring the motherhood INF fles will remove extraneous undefined devices in the Device Manager After you've rela-

stalled all of your applications, rerun Windows 9% Disk Defragmenter You'll probably notice that games that didn't run well suddenly run better and that more mysterious system.

conshes no langer occur Now you (it's hoped) have a year of



PA DOUBLE MUST-MAVE Aurene who plays computer games WAY WANT THIS AMAZING CHAIR!" Hare Splwak POPULAR ELECTRONICS "I could actually FEEL the punch of

the effectionner!" EN CUES, ELECTRONIC GAMES HOW IT WORKS A 100 watt subworfer built into the bone

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# **Presario: Close But No Cigar**

### New Compag Delivers a Mixed Bag of Performance With Limits

by Loyd Case

t first, the Compao Presario 4850 looks Hig a gamer's dream machine At a shade under \$2,500, you get a 300MFlz Pentism II, 48MB of SDRAM, a 6.4CB hard chive, ACP graphics, a 56K modem, digital audio, and a DVD drive. But looking closer, it turns out that this new Presents is a rebool base of bush nonformance and odd frustrations that limit its usefulness or a construe platform

The 4850 is a snap to set up. Take # out of the box and plug in the monitor, keyboard, and mouse. Attach the power cord: the system will power up on its own. The Windows 95 matell files are on the hard drive, making life a little casies. Cable connections are color-coded, so the keyboard and mouse attachments are stotelyforward. These's a large power button on the center of the box and a row of buttons just below that for managing the DVD drive and telephony functions. The DVD dave and video most connectoes lie beneath a door that flips open.

### All's Not Well

It's when you look at the back of the computer that the first misgivings stake There's a joystick/MIDI port in an odd position, indicating that the sound chip is embedded on the motherhoard. Then you notice that the VCA connector is also in a weind place. The AGP applics chip is also embedded on the motherboard Although the ATI Rage Pro accelerator is a decent ACP chie, the fact that it's ofdered onto the metherbesed means you'll never be able to upgrade the graphtes The second-generation DVD drive works pretty well. CD data leads reasonably fast. The hard drive is the weak link-

rt's a Ocumerm Biofoot, which rotates only at 3.600RPM.

The rig posted a CPUMark 32 of 768 and FPUMark of 1,590 - about what you'd expect for a 300MHz Ponturo II. The 2D graphics were decent, too, and posted a score of H1 (1024s/68s16) on WinBench 96s graphics WinMark, The CD-ROM Wn Mark was draw at 968 but faster than post DVD drives we tested, The low CPU uffixation (under 4 percent) was a plus. As I suspected, the hard



poor compared to most \$,400RPM IDE drives. The 3D WinBench 98 score was disappointing, too-the Rage Pro ACP chip temod out a paltry 374.

Part of the season for the relatively low 3D in 3D WinBench can be attributed to the older driver used by Compag. Upon loading the most recent drivers, the 3D WnBench 98 score jumped to about 466 - much faster through still slower than the particulant RIVA 128 series.

Adding expension cards was an approving endeavor, due to the right use of hex screws Compaguies in NLX motherboard, the expansion slots are actually part of a riscr card (in a self-contained metal cage) that snaps out of the metherboard The riser riself was very easy to remove, and securing PCI or ISA cards is a snap. I added a 3Dfx and and a PCI Ethernet card, both worked without a bitch

The Hits Just Keep on Comin' Audio proved to be another discopointment The ESS audio chip only supported FM MIDI-a poor choice for suming. While you can always add something life a Yamaha SW60XG wavetable card, the too had Compan left out wavetable sounds. On top of that, the unit put out a lot of his when the

speaker volume was erroked up The software brandle is decent but nothing to write home about - the usual mix of home productivity apps (Microsoft Money and Worla) and a couple of games (Psygnosis FORMULA Land CIVERTROCFERS from SegsSoft). There's no bundled game controller. One nice touch all the DOS real mode drivers for CD, mouse, and audio were properly set

up for a restart to DOS mode The Presente 4550 is semething of a neisted bage for garners. It's easy to set up. and it is relatively easy to add excession. cards. However, the primary amphies chip can't be upgraded, the sudio is medicere, and the hard drive is slow Still, it does offer decent performance at a good price. If you're looking for a fast second computer or a system for your kids, the 4850 may be the ticket, fust make suse you download the latest ATI video dimers. &

PAPPEAL: Users looking for a high-performance system that's simple to set up and use. PROS: Fast CPU; AGP graphics; DVD and lots of memory. CONS: Older All drivers are busqu:

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### **CG Choice Games This Month**





"How best to describe THE TONE REBELLION? Imagine a world designed by the Catalan architect Gaudi, with input from H.P. Lovecraft and H.G. Wells after a bad bit of curry."

lems, but is still

Martin Croft, reviewing THE TONE REBELLION



### HOW DO WE RATE?

We review only finished products, not prerelease versions. The ratings are as follows:								
Outstanding: The rare game that gats it all right. The graph-ios, sound, and consider conside	Very Good: A high quelty game that sub-ceeds in many areas it may	Average: A mood bag it can be a game that reaches for the stars, but	Weak: A game with serious problems Usually budgs, seriously leading					

harracendent Gemino

just a poorly con ceivas came descri-vou

buggy (Fcon caived, or valuatess that

run, shoot, run, shoot run, run, shoot, shoot shoot, shoot, run, run run, run, shoot, shoot run, shoot, run, shoot shoot, run, shoot, run run, run, shoot, shoot shoot, run, shoot, run run, shoot, run, shoot shoot, run, shoot, run shoot, shoot, run, run

run, stop, hear soldiers flanking y scanner, duck under gun turret's lines, turn on flashlight, sneak p window, surprise squad of sold ou, retreat, lead scientist to retinal fire, loot enemy corpse, cut power ast four-story alien, break through ers, aim, shoot stop, catch breath, point brows

Game Name	Issue	Page	Publisher	Rating
SO Ultra Pieball: Lest Confisent	March	143	Serra On-Line	****
Abe's Didysee	February	145	GT Interactive	****
Chase: The Bift	February	153	GT Interactive	***
Deliance	February	193	Visceral Productions/Avaton Hill	***
Escalibur 2555 A.O.	March	142	Sir-Tech	* ****
G-Police Manuslaver	Mach	127	Payprosis GT Interactive	**
Hagestayer	February March	134	Sega Entertenment	***
Hass Destruction	March	151	ASC Carres	**
Men in Black	March	141	SouthPook Interactive	** 1
Need for Speed II SE	March	147	Electronic Arts	****
Herman	March	107	Heatani	** 1
Hacker Strike	february	150	Bedrane Arts	****
Postal	February	150	Riccord Strees	***
Quaion II	March	122	Activision	*****
Stignreckersl	February	150	Psygnosis	****
Test Drive 4	March	138	Accolace	**
Toreb Raider II	March	124	Báss	***
Uprising	February	156	300	***
	10 N	7000		
Diade Rasser	March March	155	Westwood Virgin letteractive	****
Droken Sward		162	Virgin feteractive leterolay	****
Dyzzetine	February	176		****
Carte of Meekey Island Oark Earth	Maich February	152	LucesArts MicroPross	****
Maridian 59 Revelation	February	168	300	AAAy A
MIDDIN OF INVESTOR	resoury	100	300	AAAA
Dongle	Petrany	220	Hashin tracective	****
Galapapas: Mendel's Escapo	FOLLY	228	Exercese Arts	****
Hayle Classic Card Games	March	200	Sierra On-Line	*1
Pictianery	Much	227	History interactive	AV
You Dan't Know Jack 3	March	224	Bedgiley Santerns	****
You Dan't Know Asck TV	Merch	204	Balkaky Systems	***
Aresced Fiet 2	February	204	MovaLogia	**
FIA-18 Keren	Morch	166	Graphics Serulations	****
F-22 ADF	Merch	172	Ocean	****
F-22 Bupter	Moreh	100	NoveLogic	****
Ferced Alliance	February	200	Ripoxed Games	***
Heavy Gear	March	184	Activision	***
Langtone 2		164	Jane's Cembal Synutotions	****
Sabre Ace	February	200	Wright Interactive	***
GART Precision Backs	Morrit.	208	Microsoft	*****
FPS Fastball Pro '88	March	212	Sarra On-Line	***
Anch Strictors S	March	217	Acceled:	****
Madden NFL 90	March	213	EA Soorts	***
NDA Action 50	Retruev	195	Sega Entertainment	***
MEA Live SE	Retriary	194	IA Search	****
NHL 93	Rebruary	188	EA Sports	****
NHL Open for	February	187	ST Interactive	**_
NML Pawerplay 56	Ribriary	182	Virgin Interactive	****
 SOOK Off-Road Racing	March	219	Sterra Op-Lise	****
	***************************************			
Civil War Gostrals 2	February	228	Sterra On-Line	**
Chilization II: Fantastic Worlds	March	203	MicroPiose Microsoft	****
Close Combet 2: A Dridge Tee Far Earth 2140	Morth	218	MALE LEAN	***
East Fount	February	216	DiorSat	***
First Liberation	Mirch	199	Strength Skrudetions	****
Myth: The Fallen Lords	Retrigary	212	Euras	****
NetStern	feterary	224	Activaces	****
Fax Imperia: Eminent Danials	February	221	THO	**1
Politica	March -	308	Red Starm	**
Seven Kingdows	March	. 133	Interactive Magic	****











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PC Gamer





# Super Reptile World



Fox Interactive Scores With This Cute Crocodile

by Mark Clarkson

ince it's impossible to talk about CNCC without comparisons to Nintendo's SUPER MASSO 64, I'll get that over with up front Choc is very very shrifter to that popular N64 game As the adorable headliner in this third-person, 3D platform game, you'll con, times and smark had described the head with your tail, all the while leaping from photorm to photorm, collecting crystals. and saving the fuzzy little Cobbos

### A MULTIPLATFORM GAME Croe can non varion storium (to open

enter and plusged wells), chipb walls, house on mounds of pink lell-O. stide on see, were underwater dangle from balloous, and drive boats. There are kess and secret levels to find, locked choos to open, and even some engaging mininames to play, such as these-cord Mority or wheek-a-sheep But you'll spend most of your time

leasing between plotforms There are platforms that move back and forth, up and down, or around in circles; platforms that shatter or plunge downward after a few seconds; and platforms that move in conveyor belt-like streams. In the end, though, they're just platforms Likewise, the enemies exhibit a certain "sameness". There are perspeins and stales and bees and doestes, but the majority of the bad may look like little plush devil toys from an tron clawmachine. Some hop, some fly, some throw snowballs, and some shoot tridents

at you but they've all out basically from GOOD CLEAN VIOLENCE Coorl news. Morn Thereis no blood

the same cloth

not mally dead In a few senords he'll pop right book soom Take a let veurself and one erystals you've

collected full on the floor, you get about five seeends to collect them again before they fade

away If you're out of ervstals, you lose a life and start over at the nearest set point. If you've not of fives, you must restort the entire level.

In true console-turne fashion, CADC allows you to save your mane only between levels, each of which consists of several segments. Some of the segments, especially later in the game, become frustrating, then infuriating, then tedious as you repert them dozens of times. To make wrotters more modelcritise, the corners position is sometimes awkward and can not you in fatal positions.

### ISN'T THAT CUTE! Still, this is a fun earne. It sounds mod-

and it looks good. The autmetion is ereat. Platforms bob as you land on them, and characters leave footprints in the snow and sand What's more Carac actually none

acceptable on the minimum manifed machine (a P-B3), even without acceleration. On my Vondon Rish-equipped P2-266, it can at true areade quality.



CROCOGILE BUNGIE Croc will leap, tail slap, and bounce his y around in this Make 64-like game of platform temping and nem collection

> But be forewarded This is a cute owne Croe is cute. The Cobbos are waveste. Even the evil devils burning your way at every turn are pretty dansed cute But once you get past the euteness and lack of save games, CROC is a delightful example of the emerging

gence of 3D plotform gennes. And this is one 3D mean that is well wreth your time and money \$

PAPPEAL: Fros of distform game poking to most into the third easion, and arrests sufferior m Maso 64 may PROS: A fun, simple, and well thing to Music 64 on the PC. COMS: To

esional had

oca angles;

ey the too cut





Multiplayer Support: Designer: Amongut Publisher For Interactive Los Angeles, CA 970-522-5639 www.forleteractive.com

## Where the hell...



...did you get those cards?





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# Calypso Reborn

Submarine Action-Adventure Shows the Beauty of the Deep

by Thierry Nguyen

then games have often them to us for oil galacest and come indeed obes, between for a flag in the cocean "The last good underwater at the last good underwater at the game was that year! Acts that state you for a flag in the cocean "The last good underwater at the game was that year." Acts that game was the year at the game to the year of the game to the year game to the year. Such game to the year game that could be the best underwater game that could be the best underwater game that could



a hash underwater weld filled with contimeter tell lummonlas. The introduction shows your home being crushed by a timcone leasting you homeless, permities, and standed in your submarine. The punch has a good backstory that recognition to be before the Prochs.

The pame has a good backstery that concerns the we between the Procha and the Bohine Your involvement in this war in the focus of the game and its well-done and astircal plot.



job of modeling both the physics and the abundant life of the sea. (The winai effects book even better with a 3DK card) The game has a good lighting model, aboving of the surlight and the cycle of day and night. And mentu is modeled to well that you get the field of added mass when you two something. The world is filled with a large variety of sea contines, namer from field to but

tles. The environments are so visually noth in sea the that simply entaining the occurs is a satisfying experience. Camaphy revolves around two actions commerce and missions. Commerce involves spitching resources such as metals and triberce and bradition.

Publisher: Uni Studios Publisher: Uni Soft Entertainment San Francisco, CA (415) 547-4000 www.ubisoft.com



The missions are excellent and are the heart of the plot Instead of reportitive sub-lambs, we get a mixed mission types. Next Il conduct hostage rescues, spy runs, and fishing expeditions 10s halff these missions, you'll outif your sub-with a vancty andees, susseme from there to homine

ENTO THE LIGHT SUB-CULTURE IS

a beautiful game, with race

lighting effects, a surprisingly

good physics model, and a well-

### missles to a ministure recon end:

SINKING SHIP
There are a few problems with SUB
CULTIUS. The biggest is that it's easy.
Velocan action gamers will finish the
game to a few days. Also, although those
are different resistors for each side, a
few are exactly the sume no matter.
whose colors you file. This is no that dis-

appointing considering that each side is supposed to be different.

Other aneopymees include the save system (there are only seven save slots, which you can't sename), the high cost of them (which makes buding more this facult than it should be), and the single sub-type. The same also like no multi-

TROUBLED WATERS While your mastern

choloss are supposed to affect your relationships with the warring sides, being friend or fee diesen't make much of a difference

physe support, but fit a good enough single-physe game not to need it. In the end, SuB CALTIUM is an arrasingly numerative game humpered by misse problems with hele, Uli Soft will address the few problems in a Scu CALTIUE 2 and deliver a tonly great occur occurrence. §

PAPPEAL: Genera looking for a brouthil underwater experience or a free-form trading game. PPROS: Brouthil and immessive game engine; good mission design; nice variety of gadgets for the sub;

> ones: Slightly sping save enr; same licated mis-



them for money in the appropriate critics.
(The sesources are, in reality the dimes,

APRIL 12

----TRANSCRIPT MESSAGE RECEIVED GSMT 16:42 '47 AGROCOLONY RED SECTOR PRIME 4-----

Miller----Did

you hear that?

ORTEGA----Yeah... there's something back there...

Miller----Ortega...

ORTEGA!

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Sir. Trent: what spells do you have left?

Morgana: NONE -- 1 used my last on the stairs

Sir.Trent: then all we have is a sword . . .
I'll go alone

Morgana: no! Sir.Trent!!

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# **Connect** & Conquer



### by Robert Coffey

ith COMMAND & CONQUER: SOLE SURVIVOR. Westwood Studios has released an addictive little ection title that captures some of the C&C flavor while delivering its own unique charms.

### SHUT UP AND SHOOT After registering the game, you'll be

taken to Westwood Online, where you can quickly and easily start a new earner or join one in progress. Double-chickang on a channel shows who is playing, the masseum number of players, and, most importantly how good your connection is. The last step is to select your unit from shout two dozen postbilities, including tefantry associat vehicles, and even some dinosaura

Domination comes through powerups acquired from the crotes littering the spending came mens. These crates, which enhance among speed, weapon strength, cause, and rate of fire, can turn a Ministerner into a Manumoth Tank-killer To keep faster units from scooping up all the crates and squishaut everyone else. the desaggers have wesely added the ion carron. Think of it as a slap upside the head from God-the more crates you collect the more bloky our pest crate will be a fatal enemy blast from above. In SOLE SCHAYOR, even is not good.

You move your unit from a top-down perspective by simply pointing and clicking where you want to so Targeting is a simple matter of cheking on your chosen victim. SOLE SURVIVOR has more of a learning apple than a learning curve, and it lets you dive right into the fairly addictive action.



TOGETHER NOW SOLI SURVIOUS cooperative pames are its high point. In this pethall game, the grange team male together to except the flag bearer to the soul

### GAMES PEOPLE (IN TANKS) PLAY At its most basic level, Song

SUBTRIBUTE IN CAPTURE IN CORPORATION. and avoiding death. The core same is a face-for-all in which every man tries to mek up the most killy before time runs out. It's fear and tense, and the race for crates creates a sense of freray that world otherwise be missing in a game that doesn't exactly driver speed. SOLE SURVIVOR really shines in its

compensive paner There's a capture-thefloor continue for use to four teams, but my favorite cooperative game is football. In Soothall, two teams compete for one flar. and carry it to end wores located at extremes on the map. Capture the flar sames, which sequire more refined tactics, often degenerate into free-for-alls Conversely, the football game generally ralbes players together as they block and protect the "numer" It's a hoot

Shooter fars might not His SOUE SURVIVOR'S lack of real unit control, and some might find it a tad too one-dimen-



DAPPEAL: Gamers leoking for engaging, straightforward action PPROS: Easy to learn; play is well more fun than tra

HONS: Bad ethy; tack of





3D Support: None. Multiplayer Support: Innernet (2-161 players); 1 CD per player Besigner: Westmood

Publisher: Virgin Interactive Entertainment (714) B33-1999 www.westwood.com







# Nightmare in Westminster

Kalisto Takes You on an Up-and-Down Console Ride

maximum of

three opponents.

sather than the legions of cremos

by Thierry Nauven

incteenth-century England was one of the most frightening times and places in listery During this period, honor exploded onto the scene in both fiction (with the publication of Frankenstein, Draeule, and Dr. Jekyll and Mr. Friede) and real life (the notonous reign of Jack the Ripper). Superstitions about werewelves, vampires, and demons run runnant in the collective psyche, and it's in this setting that the appropriately macabox NICHTEMPE CRESTURES takes place.



NEXTIMABLE CHESTURES transports you to England in the year 1834. Our villain, Adam Crowley, works in the diabelreal sport of Dr. Frankrustein-using science to give life to equatures straight out of munis darkest fears. The same lets you portray either Father Ignatius, a monk with Shaolin-style training, or Nadia F., an American student who mounlights as a fencer and gymnast. As either character, you must pursue

Crowley through various Lendon locations and end his hideous experiments. The game features 16 levels that are modeled after actual London settings. with a boss in every four levels. At the end of each level, you'll eatch a elimpse of Crowley floring to mother location. until you comer him in the game's last level. The graphics for the levels, espeeigh when 3D-occelerated, are very atmospheric, with lighting and fog set-

Designer: Kalisto ting an appropriately gloomy mood. Entertainment Publisher: Activision NIGHTMARE FODDER Santa Monica, CA The sumeplay mirrors that of Toxas (310) 255-2000 RUDER, but with some fielding-come

CGW

that couprise the verious combo

additions You explore the levels from a third-person perspective. and fight the ereatures in closequarters combat, using a variety of moves and combox As a result of the fighting-symme style of plus; you'll usually conferred a

> OFF WITH HIS HEAD Some moves in Normalar Creatures are deadly enough to hack bodies into pieces.

found in other rumes. Boss creatures are moves - a necessity when you fight less voltrerable to fighting moves, so you'll Capseley himself. need special tricks to defeat them.

The save-game system is also a mess, as it forces you to save only at the end of a level. You also have an "adamatine meter" that sams your life unless you kill something. Thus, free-form exploration is discouraged, as you need to kill to live NEHTMAR CREATURES does a good sob of adding a gloonwatmosphere and some variety to the 3D platform genre. If you're a console veteran, or don't mind console-style plan; this is a good swipe to pick up Just make sure you play with the

lights off and the sound up. 9 PAPPEAL: Gamers looking for their 30, third-person action games. PROS: Atmospheric envirae new twist to perre with fighti

me moves; two or COMS: Limited part: hare

Price: \$49.95

System Pentum 133, Windows 95, 16MB RAM, 20MB hard-drive space, 2x CD-ROM, Windows 95-campatible sound and video cards. 30 Support: Direction 3Dfx. PowerVB BIVA128 Multiplayer Support:

www.activision.com

combatants, who wear beas and shoetshorts into battle. Nadia stifkes a blow for coromon sense and wears pants

HARD AS HELL The main problems with NICHTMAKE CREATURES are its console sensibilities and its difficulty. On the PlayStation, it mas already entirged for difficult combut, on the PC, it's even harder If you don't have a remerced, votall have a hard time apparering the keyboard sequences.

The fighting-game controls add a level

Rational combat. Now, you can execute a

combo that slams a staff into a werewolf's

bead, rather than mercly fatne your pistols

a little faster. Your combos are augmented

Which character you choose affects

gameples: Ignatus has more powerful

strikes, while Nadia has quicker attacks.

And in a break from her fellow female

by a variety of power-ups that carabitred.

of conglexity not found in Town

freeze, or docupitate the enemy.



The tightly integrated mix of combat, storytelling and puzzling keeps the pace brisk and lively, and it'll keep you coming back for more."

- PC Gamer (Rating 90%)

"It's a game that clearly was a labor of love... with humor, style, and brains to spare, and with a wonderfully refreshing emphasis on character development and decision making."

- Computer Gaming World (Rating 4-1/2 out of 5)

"In an age where many are predicting the death of traditional RPGs at the hands of multiplayer extravaganzas, Fallout is a glowing example of the genre, one which positively radiates quality."

- Stratery Mac Radins 4-12 and of 51

"Interplay set out to create a 'real' RPG for the PC, and it's more than succeeded."

- GamePro (Rating 4.75 out of 5)

"Fallout is one of the finest games published this year, and is sure to be a serious contender for numerous Game-Of-The-Year awards."

- Online Gaming Review (Rating 9.5 out of 10)











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# Hop To It



han I first brand about Hashin Interactive's remoke of the classic computer same

FROGUER, one word mamedistely issued to mind Why? Consted, FROCCUR was a for same to its time, but let's face it, you besically dodged cars. So why, with so many other exciting computer games out these, would I

want to go back to a dusts old areade game? Well, through the wonders of 3D enhancement the folios at I-lanbus boxe takens the basic PROCCER theme and turned it into one of the most addictive, fun, and diffive played in a long time. You're no longer relegated to jumping from point A to point B while trying to avoid becoming road-fell. Instead, you

can jurne up onto a birds back and fly

IND'S-EYE VIEW In Fraggers, you can hop onto the sacks of birds to By around the 3D environment.

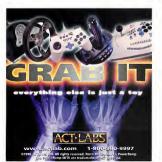
around trees, clouds, and chasens or superhap your way coto maying mechinery while on your way to rescuing five cute little from Of course, you'll also be dodeing boulders, snakes, and rets, and trying not to fell into lava or toxic waste, or off the edge of a frazen cliff. With these complicated, devious level designs. Flashro has actually monaged to burn FROCCER into a puzzle

pame - and it's a blast. Single-player PROCCER is great, but the multipleser game is frought with problems. For some reason, the designors declined to include the wealth of cool levels for multiplay, and the few that are available get old peetly fast. Also, in hotsent play, when you use the keyboard

to control your frog, the split-screen is reversed This means that when you use the left side of the keyboard, you control the freg on the right softscreen! Networked multiplayer surnes also have problems if one of your opponents is playing without a 3D card. The turne seems to go to the lowest common denominator.

which slows it to a crawl Keep in mind that a 3D cord is virtually a necessity for FROCCISE. Without one, the some is almost unphyable, and it looks so bad you wouldn't want to play anyway.

If you have a 3D-accolerated machine and are up for some hot single-player gaming, you'll love. FROCCUR But if your dig is still 2D and you're a multiplever maning,



### PAPPEAL: Among who wants a great, single-player 30 puzzle

os: 30 locks great; addictive, fun single-player garpentar.

lo 30 card. ty et

don't bother %









Prings \$50

Windows 95, 16MB

3D Support: None

Multiplayer Support:

Hotseat, modern, senai cable (2 players); LAN

(up to 8 players): 1 CD

per player. Publisher: Sono

1-BOO-USA-SEGA

WWW.SEER.COM

System

RAM

### **Start Your Engines...Again**



by Mark Clarkson Legis DATONA racing game is

back on the PC a second time as DWYONA USA DELLOX: It's an improvement over the last (classtrough port. This time, you can

race on one of six tracks, from ovalesque speedways to desert easyons to the seashow The eight cars vary in grip, speed, and acceleration, and you can fine-tune the

handling quickness, suspension firmness, and front and back height The music is decent, though not spectacular, and I could have freed without the pit boss velling the same things at me constantly. "Congutulations, your time has been extended Congratulations, your time has been extended/ I generally played with the

The emphies are nest, but flawed. textores worp and produte, and the sky poles through scarrs in the road, chils. and scenery. The game lacks 3D hardware-support, although Direct3D support is promised in the future. Even without has dwore support, the game runs fine on a



THECK POINT! Druge has Decree's gnature gamestay, good physics, and acerneb executor

My analog joystick, and the accelerator half of ray CH pedals, worked, but I never got the brake pedal working DISTONA USA DELL'INE retains no favorite Segn Rally feature the ghost car.

which allows you to race against your own past performances. Overall, while the game provides good, basic areade ricing, there isn't enough to

distinguish it from similar offerings & PAPPEAL: Fans of Darmon looking

fee a PC fix. PROS: It's Derme, with an extra track and car customization

Some prachice glitches and no D hantsare

\*\*\* REVIEW • JET MOTO

eeding Moto-cycle / by Matthew Schaefer

sound off and the radio on.

of test another "soort of the future" parme. IET MOTO blends the "Ostand of "extende" sports with the venerable tradition of areade racing games, providing high tribus-fast action to avenues ready for a refreshing take on PC meine. A set moto is a futuristic vehicle that's equal parts motorcycle, snowmobile, and jet ski. Players must race against 19 other let motos at beeskneek speeds through 10 complicated tracks of varying difficulties. Due to the let moto's behild nature. tracks can consist of water load, or ice. as well as contain any number of kinks. turns, drops, and impains two obstacles. These 3D courses per breathtaking in one course, you'll race along a wandy

dyer only to turnp off a 100-foot waterfall before climbing up an consily steep dam Racing on the jet moto circuit. however, requires more than swift manciorenng. The lifes are

contraced with massive tic procedure devices for ultrashero torus and turbo boosters for leaving the competition in the dust. After winning a full race season at the professional level, a "stunt racing" mode becomes awitable that

Ікт Мото сап be a difficult same. however Learning to control the lake can present some problems. The challenge soon switches to winning all

old Dayrows

races against the speech Al. This even become quite frustrating, as not all tracks are available to use metal full more sensors. are won at increasing levels of expectise With the sci-fixettine and radical vehicelex Ist Moto benes innevetive con-

soft-style recine to the PC. % PAPPEAL: Action racers tired of driving stock cars on oval tracks. PROS: Innevative, excit course design; the novelty of



Price: \$39.95 System ements: Pectium 90. Modows 96. 16MB RAM 3D Support: 3Dtc. andition, Matrix Multiplayer Support: Modern (2 plevers), LAN

(519) B24-5500

ART YOUR ENGINES JET MOTO provides interesting and good looking race courses, but the learning curve is pretty styro.

CGW APRIL 1998

enables you to further enhance

the action.

### The good news is, you finally figured out how to save the earth.

and role-playing game genres.

· Richly detailed graphic

Complex puzzle solving unfolds engaging

Some games suck you in so far you lose your mind in the process. Exactly what the new rulers of ALIEN EARTH count on. After a duck-and-cover free for all, only the strong have survived. Because now, it really is a jungle out there, humans are viewed as the ultimate Big Game, and you'll be pushed, dragged and hunted through extremes of hardcore, hardgore graphic terror. But sift through slews of clues and you'll get out of the woods, lead the resis-tance and commandeer the Alien Mothership, Simple, Just use your head. Or they will.



## Do you really want to hear the bad news?







PC CD-ROM







# **Timeslip**

### Going Back to the Future Is Fun. But Not as Much as We'd Hoped by Charles Ardai

ere's a question that occurred to me while I was playing THE JOURNESMAN PROJECT 3 LEGACY OF TIME Why would time-travel technology ever get better? Just think about it for a second At the start of the game, one character

specifiely dismisses the Pressus technology you used in the original JOURNEYMAN PROJECT: "That old time machine? It's been shelved for axes." So. be offers you the sponking-new Chameleon lemmait, which not only catapolts you through time and space, it also allows you to take on the appearance of anyone who

crosses your path All well and good, but why didn't you have a Chamdeon lampsuit in the first game? Couldn't the inventor have just peopled the surt back in time a few years and thereby saved everyone a lot

of trouble? Pripe: \$59.95 System Requirements: Uknow, this is not Pastium 90 (P133 the sort of question mended). Windows you're supposed to 95, 16MB RAM, 70MB ask. So here's one of a hard-drive space, 4x different sort: Do CD-ROM trive, high-color (16-bit) graphics, DirectXtime-travel pances

(80MHz or faster recom-16MB RAM, 60MB hastdrive space, 4x CD-ROM 30 Support: None. Multiplayer Support: Designer: Presto Studios Publisher: Red Orb Entertainment Novato, CA (415) 382-4400

ompatible sound.

Macintosh: PowerPC

ever get better? Considered solds from a technological standpoint, there's no comnemore The first learnings and Pacification was a bear to play With barely adequate controls, you thurspeed along to your Afteholis-man Persons will through the thisnest of earthoard plots. The second ICURNISMAN earne, BURDLD IN TIME. was a monumental improvement. Timy graphics were replaced by gorgeous photo-realistic tableaux a sleeker, less ndiculous looking timesuit replaced the

to play, it was only a bear cub, since the designers had sanded down many of the game controls' rougher edges. LEGACY OF TIME represents another

quantum leap forward in technology. With the exception of forward movement, which still proceeds in awkward chanks, you flow through your environment like water through a sieve, your point of view banking and swooping with utter freedom. The exotic locations that you explore - the lost eities of Atlanta, El Dorado, and Shanen-La-are sturming. Best of all, you no longer have to skelk around avoiding human contact There are plenty of characters to meet, talk to, and (thanks to your

Chameleon with discusse younglf as

POOLS OF RADIANCE The splendid graphics in Leavey or Time vividity recreate the mythical oties of El Dorado, Shanon-La, and Atlantis.

AN OLO FAMILIAR TUNE

Once again, you play square-saved tmecop Gage Blackwood, Agent 5 of the Temporal Societty Agency. When the new states oncos. Class has had the roemory of his last adventure erased and is being ordered by his superiors to turn in his timesuit. No sooner has be complied than a pair of crises crupts A spene TSA asent is chousing history in the Bth century and an unknown after race is boncking toward Earth, leaving death and destruction in its path.

What can be done? Assed blanne Klavous and submarine-style lighting. you (as Gage) bravely leap into the breach. After reporting the time discustion in 1262, you recover the teme codes that the rogue agent has planted at the sites of the three legendary civilisations. Finally, you visit the lost cities before their destruction, searching for alten artifacts hidden in each city's holiest temple that could help burnanity defeat its 29th-

Problem is, we've seen this movie before Both Star Teck (Vand more secontly. The Eith Electron told the story of an indescribable, inesorably approaching aften menuce that could be deflected. only through our of a secret lodged in

century adversary.

Earth's next. Star Trobbad its crow of time-travelers dissoisted themselves as notives of an earlier eas. The E10h Elementhed exactly the same awkword. blend of Indone Jonesstyle pyramid prophing and lasers and epoceships feturism that LEGACY OF Text: sports plus a very sunder elimentic scene in which the hero desperately

monipolates the ancient artifacts until they combine m just the right way to repel the alien therat. Sad as it is

to see a fifm end with a lame puzzle-solving scene, baying a major new game end with what amounts to a verieties on Rubibly Cabe is under

And while the production values are high, they can't hide the holes in the script, which is a far cry from the deft wordness of MONROY ISLAND, Yes, the acting is professional for an adventure game - the characters' accents are narficularly well done -- but the performances too often go over the top. You'll find yourself reciting the chickes right

www.redorb.com Pegisus, and if the game was still a bear CGW











An epic adventure of good and evil.



You've been warned. www.eidosinteractive.com

#### Why Buried in Time is Better Than Legacy of Time

#### **Buried in Time**

- Puzzles derive returativ from setting and plot
- Costumes are authentic. interesting, and varied
- Historical settings (da Vinci's studio) were more intense
- Space station gave you problems to solve in the future
- Pacing was good, despite the clunky engine

along with the actors "We're making a trage mutale, Jack!", "Old friend, I need you to do something for me!"; "They

To be fair, Lecson OF Tive's cinematic style contributes receiv to your evening onjoyment (though it falls somewhat short of BLADE RUNNER, another atmosphene sci-fi name). The first time you use the mouse to turn your character's head and the stylishly letterbased graphies obediently swing from side to side and up and down at every conceivable mele, your boart will race. Mine did

#### PHZZI E PARADOX

Civen the superb muchies and enhanced game ename, void expect that the proudes (a strong point of

ales are fine, but many tovolve tasks like from a booken gear assembly with a gen you find bring on the ground next to the assembly ha Shaperi-La, voo hteraffy speed boors crawling through a maze

well Same puz-

of steam tempels. opening and closing metal doors and gratings.

to cut them short

Rrow will bke

Even with those

annovanors I dan say

that sewone who bleed

BUILD IN TIME would be improved as When the puzzles involve character locations vou've to the windowll in tion will hold your interest, but after that one fliw with one finger on the Esc key

TILTING AT WINDHILLS After a helf-dozen trips back to the windows, you'll feel five hopping that fishing vessel out.

Legacy of Time Too many artificial adventure gerne puzzles

Costumes reminiscent of Adam

- Sandler doing "Opera Man Many games put you in fantasy settings.
- so what's new? Thing back to the future are mainly for

already seen

exposition, not asmeolay Too much backtracking to locations you've



OUT OF TIME Some class you find in the mythical cities are too comy even for a Doctor Wito episode, as in this close-up of a temesuit painted on an ancient temple well.

TOURNISMAN PROBERT 3 LICALY OF interaction, they face Tive as much, maybe more its a betbetter, but you me still ter-than-average Must takeoff But recruised to do for too three years after BUILD IN TIME (see much backtracking to the sidebark it's a disappointment to see this once-innovative series so already seen (Six visits emphastre style over substance. As recent adventure games have proven. Atlantis is about four there's no reason we can't have both \$ visits (no many) The first time you go anywhere the lash armu-

#### PADDEAL: Gamers who like Myst or ssi-fi adventures. PROS: Gargeous settings; cons

able freedom to explore; slick and COMS: Some hanal mechanical puzzles; clichéd script; not up to PERSON IN TOUC'S standard.







\_\_\_\_\_

Real STRATEGY









### DETORMOVER SIFT A

A TODD PORTER GAME



### Unfunny & Repetitive

#### ARMED & DELIRIOUS Looks Great, but the Puzzles and Humor Are a Bust

#### by Barry Brenesal

ately adventure earners have been riding a modest wave of animated surreabilic reaching adventures (Tije Nisyuracion) and TOONSTRUCK are two examples) ARAND & DELIK-XXUS is another forw into similar torf, which, enfortunately, doesn't succeed

Here's the plot The wealthy and eccentric Crotoey family enjoys torturing and experimenting with animals One rabbit has escaped, vowed revenue, and established an intergalactic empire, whose dosigns include the destruc-

George, to sell his relatives to the Court Robbit in exchange for a placetoid sales concession Meanwhite Crancy Crotosy has discovered that her cookbook is missing -- stoken by the Creat Robbit - and she sets off to recover # and her descriptionts

tion of the Certoeus. The

Mi coorontie manutus

Creat Robbit sets the fami-

PRETTY, BUT DUMB The syphies are easily the most confiwiting aspect of ARMED & DILLINOUS. They menge reality with Salvador Dulistyle art and to the owner credit the Dub style usually comes out on top (especially after Crancy leaves Earth behind). The Ki-lat color realette is beautifully applied.

are more problematic. They're not so

ing the manipulation of objects whose

much difficult as they are obtuse, involv-

and the limited 3D animation is excellent Designer: Makb-Clearly, some very sonbisticated artists. were involved in this project. Publisher: Sr-Toch The puzzles to AMMED & DELIBEOUS

purpose is unexpected (for example, a set of mechanical stains, when knocked over, interact with a hove even). But often objects are highlighted for interaction, yet Correspond interest with them, and there are some mustle solutions that are completely arbitrary. Crurary can't lowe

Earth until she's acquired a moun of specific objects from her house, even though you're never given a list of the objects, and

they're of no use in petting off the ground

THE PUZZLE PLACE Building a house, the Crotony Way Armeo & Drumous features some good "how-to" puzzles

> Also problemetre is the includity to identify with Asserts & Districtus? humans. Maybe I'm entisting the obvious. but why exactly are we supposed to assist a family of animal torturers? Counted. this is a whacked-out eartoon universe. but we're still not given any reason to help the Crotony family Even Cennsy.

the best of the bunch, is unpleasant, stunid and self-obsessed. The nest hurdle in Around & DUDGOUS is its humos, or lack thereof. Since the dialosue is minimal, this means that the humor is bestcally slapstick, physical stuff, which is buring, repetitive, non-interactive, and has nothing to do with gameplay.

There no problem with humor relating to bodily functions. It can be very funny when excatively applied, whether the medium is Biti century French Libbaux or Ren and Storme But when Crance enters on attic, takes a slog from a brandy bottle, starrers about forts leadly, and falls asleen in a charr it isn't evousive it's

instacheap gag. The occasional measure to four-letter words in ARMED & DANCEROUS IS elscapee still, because it's used strictly for thrill value. I may so the ides is that somebody in her 70s

mattering "s" "I" will provoke gales of surprised laughter Actually, I'd be shocked if an oldster delo? corse effectively, given the opportunities for colorful vocabulary gained after years of Me experience

#### NO DICE There are some descrit how to

MONREY BLAND &

nursdes to Austro & Decembers. but formy it on't and frauldy I cheered throughout for the Crest Rubbit If you're looking for human and popules in an entertaining, but brane, my, checkent Dir. Classe, or

PAPPEAL: Adventure gamers who ericy great artwork. DUOS: Fontastic, surrealistic art. work; some intriguing how to puzzies; good off-kilter soundtrack.

COMS: Descirable characters voo're supposed to be beining: very labored humar; some proxies have arbitrary salu

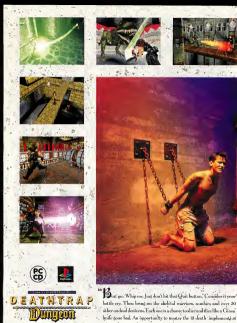




Windows 95, P100 18MB RAM, SVISA graphics card, 4x CD-ROM down Mcrosoftcompatible mouse. Sound Blaster compatble sound cond. 30 Support: None Multiplayer Supports

> Dadensburg, NY www.sle-tech.com

There's only one thing more forturous than playing Deathtrap Dungeon.





your disposal. Or play the PC version and leave the other on-line playin cyring for more. Because in these the enversions levels of evil traps, the all souts blurring that fine line between pleasure and pain. And just when you think you can't take it and longer, consider the alternative.

You've been warned



# OF DEPRESSION

_	rersistent sauness and or irritability.
	Recurring thoughts of how much better life would be if you had Deathtrap Dungeon or Tomb Raider II.

When depression strikes, immediately seek the help of a trained professional at your local computer game store.

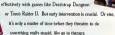
Statements such as, "I'm bad.
I'm stupid. No one likes me."



Wiping secretions

Research shows that the leading cause of depression among gamers is a noticeable lack of Eidos games.

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Try not to forget your loved ones.





### Flame On

Multiplayer Is Missing, but HELLFIRE Still Packs Some Good DIABLO Hack-and-Slash

by Scorpia

hen Duvi.o first came out a year igo, everyone was talking about it, but Leouldn't play because Little? have the necessary sistens. When I finally not my whee-bane Pention last spring, Divisio was the first game I bought, and it didn't take long for me to become booked Very booked. I

leved the pameplay, the music, the graphics, the next items -- in fact, I Meed almost everything about it. So when the HELLFIEE expansion was amounced, and Hound out that it was being done by a third party - Synergistic Software - meteod of Blizzani, I was a

little skeptical. Could another company emulate the quality of the original game? Heppily, Synogotic not only did that, they put in some enhancements to Divided that make playing it even better

ON THE RUN For starters, they sexved up town

movement The docs are double-speed. but it looks more like triple to me. Those long, alono ownloads to the monastery or the witch are now like crowing the street. If you're mirred. Prom heals you automotically now you don't have to ask for it separately Grisuoldis stock of premium flems is larger, and the fancy items stick around longer You have a better chance of saving up for that nifty Crimson Armor of the However or whatever else has cought your fency. As before, the stock turns

over moly when was've pone up a character level Sorgerers begin with new stems. Instead of the Charge Bolt staff and two many policies, they now receive

Line (800) 757-7707 www.sierra.com the mone pool. While not as powerful as mana potions, the new staff allows the mage to stay down in the dangeon longer Much of the reroring back to town every few monitos for more mana has been chromated, which is a welcome change.

Several new duries. as well as a bunch of new and urnous forms. were added to the game. I did not, also, come axous many of the unique items. In fact,

the only one I can recall offhered is the light sabre. No, not a ledi weapon, but a sabre that provides light in the dengeon and protection against lightning spells Most of the new slatines give smell boosts to state speceako deal cet daroage when doing so.

New spells include Benerik (causes monsters to fight each other). Lightning Wall Ohe Fire Wall, only with highteting toward of fee's Introdution (a deventatone five attack that every cost in a circle). and Search, which temporarily highlights all items in the vicinity, making them esser to see

Since Hazzero installs completely to its own directory -- it clossn't touch your

CAN THUR DO THIS? One of HELLIPE'S NEW spells is the Lightway Wall, which will electrocute anything in its path.



MEDITATE ON THIS! The new Monk character is a far ory from a meek pligrim. He can attack barehanded or hit multiple enemics with one blow of his staff.

original District files - you have to copy over the save files for any high-level characters you want from Divisio to HELLINE The good news is, the characters come over with their levels and stats intact. The had news is, no items come with them. Annor, wespons, polions, scrolls -- everything goes away. Only gold makes the trip. The manual advises loading transfer characters with money beforehand, and I beautify endone that advice. Fortunately, Criwold's stock of prentium items will reflect your character's level, and you should be able to buy some decent confirment from him

WE GOT THE MONK

HELLETE's really new features are two dungeons of four levels each, and a new character class the Monk The Monk is one very hot character Weapenless or with staff to bond this performed weapon), be's a termondous fighter, especially at higher levels. He can hit as many as three opponents at once with the staff or burehanded (actually barefooted, strice weaponless attacks are kicks, not punches)

Monks get automatic increases to damage range and armor class as they

Price: \$29.95

System quirements: P60 Windows 95, 16MB RAM, 150MR free hard-drive space, 2v CD-ROM drive. Windows-compatible sound cost w/DAC mouse SUGA video card Disago CD must 30 Support: None.

Multiplayer Support: Designer: Synergistic Publisher: Sierra Dn-

two hearing potions and a Staff of Mone, which (naturally) recharges

# RELIVE THE





The Bard's Tale"





























Wasteland "

MARTER AN

n inspiring collection of 12 all-time classics, The Ultimate RPG weblives brings together the most impressive array of award-winning computer role-playing Eunes ever assembled in one box. It's a die-hard RPG gamer's dream, a great place for novices to begin, and a must-have for every gamer's collection!

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REVIEW . KELLFIRE

goup in level Eventually, unless he has a really potent staff, the barchand damage will exceed weapon damage. Heavy metal ince, chans, splat, and plate amore—does not wonk well with Menka. It may even degrade their amore class. Therein his the tradeoff, Most of that begin AC course from allyth basses, not actual protection. Ergs, when a Sooks takes a lit, whether physical or masses a well hard her more con-

faming finhels

not moth amon to seak up the damage.

The first new damageer, The first, is an acky-leading place, with a layout armine to the list levels under the Monastery— all wade open, with not many places to Indie. Most of the monates here are the up-foort, light-er type. They come slight for you as soon as they see you. First, however, one more dampeness than others. Seeder Londo.

than it would a Fighter or Rogue wearing, say, plate mail; there's

spitter-class critter), Psychorbs

PAPPEAL: Dissus farastics who
just can't get enough.

PPROS: Nice enhancements,
such as faster town movement,
to original Busice system; lets of
mer spells and items to obay

with; interesti class.

FCONS: No multiplayer mode whatsoever; end bass is a big RATE

and Necromories (floating eyes with a magic attack), and floreh Ants (complians on borch, as they cluck firebolls year way). At the bottom of the Hive is the Defiler, an exceptionally nearly critter. This thing has to be killed, as it holds the item to open the

Crypt
The Crypt is a very tough place—the
lower levels in particular are early the equal
of the I tell levels ender the Monastery, and
the derivations have are not to be Intelled with.
Thair hit points average around 100 or bettor, and many have spell institution and
unmantly Thys alo I thing hard.

#### NA-KRUL-SISSY DEMON

An the bottoms of the Pilex is Na-Knd, the new demont. Killing him does not initiate any special superaries, his really only a very station on the path to Duklo Na-Kndii is very station on the path to Duklo Na-Kndii is one of the gime kill galaspootaments. Le's supposed to be The Demon Too Hot for Duklo to Hunkle He, whe exister Duklo couldn't kill and had to burnh After that building, finding, believe to ke, in rectualty, a gade A crompatif was a terrible kildown. The Mork Medels his face in whent even

riting a sweat. The Rogue tumed him into a pircushion with no trouble at all. The Sorceor fried him to a gense spot, and he childri need a let of mans to do it. Only the Fighter, who had to be in close (without the Neukle dodging piblity) took a few humas from Na-Knul Even so it was not an

epic encounter by any means.
The other disapportentes is the fact that
Pall 1918 is maggle-physe endy. There are no
toodern options at 41,000 wow only the able
to play this on whiten on to with a fixed on a
dal-up connection. I can see how trying to
lank
play the apachicus, but the lack of any
modern play in Pillatarius is astemishing
appearable as multipleyer mode to one of

Dougo's beggest selfing points.

Even so, Hellerine is self a fine-class job. The new graphics and musee are on a par with Dougo. The enhancements to the original product, plus the new material and new character class, have really firehened up the sense.

HELLIPRE is a welcome expansion on a great theme, and one that single-player District fans shouldn't miss. S

BOTH CD AND DAD IN THE LAME ALCKAGE.

AWARD-WINNING 30 VIRT ALL WORLD ENGINE.

FROM THE CREMORS OF "ADVENUE ARE GAVE OF THE VEAR."

UNDER A KILLING MOON AND THE PANDORA DIRECTIVE.







## Ship Shape



#### A New Development Team Breathes Fresh Life Into the WING COMMANDER Series

by Scott A. May

t soems impossible to imagine a WING COMMANDER same without creator Clars Roberts at the belon. But that's a reality that fans must face, much like according any actor but Sean Connery as the true James Bond However, for better or worse, 007 movies continue to do well, and so does Origin's flagship series. Truth be told. WING COMMUNDER PROFEER. guided by chrector Adams Foshko and lead programmer Peter Shelus, fores much better than expected

Roberts, who left Origin last year to form Digital Arrol, evolved the WiNG COMMODER series from its conne-book incretion to a case of followed module. tion in later episodes. Most fans were pleased by the series' development. though many felt basic gameplay suffexed from Roberts' newfound filmmoking aggrations. In this regard, Foshko

and Shoks have returned the screen to its nosts, where gameplay takes precedence over FMV diversions. Longtime famous the series should be pleasantly arransed

**NEW FACES** The same features a familiar branch-

ing story structure, whose path and ultimate outcome are determined by decisions you make during the course of the game, as well as your performoney in each of more than 50 miscons Unlike in purvious ensudes, the plot best is not so cut-and-dry. You assume the role of 2nd Lt. Casey (played by Steven Petraca in the FMV sequences), a young volunteer fresh out of Academy, cager to prove himself in buttle. As the son of lectural -a central character from the first some in the

skeptical recicle and vetoran milots, who suspect you're smply riding the herose vapor tards of

your late father. Set abound the Terran Confederrtion's new supercontex the TCS Affahore the game begons with reports of an unknown alien force devas-

tating the encepowerful Kilratha star system. Based on purifications of the aliens' path of destruction, it appears they'll soon be headton into Confederation space, with Earth as their offiniste target. Only the Midway with its coew of

precisherus and seasoned pilots, stands a chance of stooping this afters menace. The game begins with a full-motion video tour of the pilot greaters on the Afternor, which also serves to introduce new and old characters, such as Mantae (Tom Wilson), Ruchel (Clinger Lyon Allen), Deale (Lauren Smelax), Muestro

TWO PEAS FROM THE POO Tom Wison reprises his Marriac sple, as your character and his awap fighter-lock stories.

(Notl Borry), Hawk (Chris Mitlay), and Dellas (leel Stoffer) Mark Hazoff abo. milites a token appearance as Bliff, heroof the first four episodes

The FMV sequences, directed by Foshko, um a mixed bar of good and cheese On the positive side, the settings and costumes are the best of the sense later FMV-enhanced games, featuring more penuine studio sets, as opposed to WCIVs entirely computer-generated green-screen backdrops. Overall, the

video portions of the same feel more tangible than before. On the regative side, the FMV scenes consist of a young, mostly unknown cast whose acting shiftties nale in comperison to pervicus stars such as Molechin McDowell and John Rhys-Davies Indeed, much of the dislonge and character interaction has a certain Melrose Place feet\_which in itself ten) had

out different Luckily, these circinate interludes are typically short and sweet Camers also have the

MOTHER OF THE SEA The Transactions Disable upt constrate WCP's sense of scale, as this ship fills up your viewscreen from 30,000 klicks away.



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series-voring also forced to prove your individual ments to

shifty to adjust both move and in-flight communications to ant

#### A Dark, New Menace

ne story, by Adam Foshko, Chris Douglas, and Paul Wattenberger, evokes a sense of mystery not found in provious episptes. The alien species-including its background. motives, and ultimate intent-remains enigmatic throughout much of the game, which heightens WCP's sense of discovery and terror Renowned sci-ti artist Syd Mead, famous for his production design in the films Black Flunner and 2010, conceptualized the alien race, which is much more organic and sinister. than the cartoonish Kitrathi space cats



their needs and preferences. Options include enabling all between-mission movies and in-flight messages, playing only those movies and messages critical to plot advancement, or disabling both features entirely To get the full flavor, regardless of your experience with the WC senes, the best aption is to enable all video sequences on your initial run. Thanks to the game's branching story line and meltiple paths to different endmay, replay value is high, which means

draw players deeper into the action, and sometimes reveal intriguing characterrelated plot twists The Ree Room features the familier followed which hits correct kills for all Michigraguadrons, and a tactical database, which offers 3D views and stats on every Confed fighter and capital slop in the game. Finally, there's the combat.

simulator, where sockie pilots can prac-

tice basic flight and combet meneuvers within a safe constronment The game begins with a series of sortes, designed to train you in the face art of following. na systemal way points. escorting fighters, defensive engagements. and bypermings After

Instead, your fighter is

automotically assigned.

hand on skill level and



STING LIKE A BUTTERFLY Under and colorlal ships live this Stingray sometimes are more than they appear-this ship is the result of three ships combining into one.

you can then reduce or eliminate superfluous cinematics in later sessions.

PLACES TO GO. ALTENS TO KILL About the Molecu Casey has access to key areas such as the Ready Room, where you can attend mission briefrus, load previously saved eaures. and enter the Rec Room. Here you'll find food, drink, and FMV conversations with other crew members. Again, although these cinematic exchanges are optional, they help flavor the story line,

mission obsectives. The cockert display varies shahily from one ship to the next, but all feature bestcaffy the same array of controls monitors. aktors, and heads-up readouts. In all, there are 7 new Confed ships to fly including fighters and bombers, and more than 10 new aften shies to battle Unlike the last episode, you can't choose your wingmen here. On the upyde, however, your wingsten are more plentifell and much more intelligent than before, requiring fewer communications

to keep them on track.

SPECIAL FEFECTS The expek retoried flight engine feels great Thrust, inertia, ortch, rotation, and roll make fluid more environme than in previous rustallments whether they're employed during professeed dog fights or carefully staged bombing runs There are no planetary missions this time out, but they aren't missed Instead, you get Cap ships, some nearly 20,000 meters long, scn-

desed to scale in realtime. Visually stanring, they can easily take you mose than three minutes to traverse, how to stem Visual effects are the best set seen in a space-combat game. WCP supports most rayeor 3D accelerated video cards, which lets the game run fairly smoothly even on a Pentium 133. The 3D effects include testaned space - no more pitch blockness-less flares, missile terils, translucency; must de flash, haze, and some of the most mind-blowing explosinus this side of a Hollywood film. And that's just the tip of the sceberg Damaged shins break agest, spew fuel, or coult sparks from missing sections And you'll even encounter alten ships that transform themselves into bisser. deacher opponents There's so much eveexactly that names will constantly find then we've runttening a hunbed "Wow!" WING COMMANDER PROPERCY. actually the first episode in a proposed new tellors: successfully returns the series to its solid mots, while moving forward in terms of story line and machin soleodor. Chris Roberts is sorely missed. but his buricehild continues to grow in very conable hands. &

PARRIED Backet lockers and fans of previous installments of the Was Communica series.

PDBOS: Best FMV in series to date: greater resphasis on comestay; outstanding graphics and sound: vastly

extern requirements: once then begins player options aren't in the









### The Baron Flies Again The Sequel to the Flight Sim Classic Needs a Few Patches on its Fabric Wings

by Robin G. Kim

ew would disagge that RED BARON is a true classic among flight singulations. The 1950 release was a rire geni that did almost everything right. expanding the envelope in terms of graphics, realism, and breadth of gameplay. In the long-awaited sequel, RED BAKIN II, Dynamix bas

attempted to recapture the magic of the original while incorporating enough amprovements to sutisfy gamers' evermercoving expectations. Ales, though the sume comes tantaltainaly close to achieving these poals. It falls short due to significant flaws that could have -and really should have -- been proided As with its predecessor, RBH's

strengths be in its mimeracy atmosphere and enomous scope, which span the entire coope of history's flut air war From the slick interface graphies and music to the wealth of background information on WWI and the aces who fought in it, the out-of-cockpit experience is bitmming with enough period feel to put even juded simmers in the parcel for flying In addition to a con-

terminable instant-action docfold cettern. 27 curred misuons are included, plus a nowerful (but horsy) musters builder to let you create your own

The beset of the same, however, is its dynamic campusin mode. To emback on a campaign, you must create a pilot record. You specify for which country you will fly (France, Britain Cormany or Americal your enlistment date, initial rank, and saundron affiliation. Because a carnperen continues until the war rock. or your prot is incapacitated or killed, it will often require a substantial time commitment - sorbe counts can easily run into the huncrash bug can make further progress (mposs)ble if it strikes. forcing you to restart the campaign Missions very from routine petrols to balloon

> miantry support. Profilebt briefings list waypoints, altitudes, and formations to be used. This refermation can also

INSTRUMENTAL Regism fanatics can opt for the bare bones instrumentation real WWI priots had to work with. but two modern dashboard layouts are also provided for those who prefer not having to guess at their airspeed.

ellomation the need for memorization. After a mission, a play-by-play aremeted debetefine records the highlights of the flight, compensating somewhat for the lack of a mission recorder. Since many flights lost well over an hour of game time, RBII provides up to 16s. time compression and three autoritat modes to speed you through the really boring ports

be conveniently accessed in flight.

HISTORICAL CORRECTNESS As only one sauadron amone many



CASUALTY OF WAR The game's hit detection and damage modeling are second to none

there is no very to change the overall. course of the war, but your efforts are not entirely inconsequential. While soundnon and ground unit placements proceed incombly according to history. famous aces can be shot down premoturels; and damage to belloons or ground structures carries forward to fature resistens. Within your providens. successes are rewarded with decerations, promotions, authorization to naint your nireraft (requiring the use of an external point program), and leadership responsihibbies such as mission planning and

efotourumment Over 20 defferent snorts (smelesent fighters) can be flown in the sm, from the puriceone Monne-Soulmer-the first true fighter plane-to the avesome late war Folder D.VII. As new types one introduced over the course of a cumpaign, you experience first-band the effects of the see-samoe stravele for technological advantage waged throughout WWI. An assertment of Al-controlled reconnaissance planes and bembers may also be encoun-

tered, but there is a lack of Zeppelius

Prine: 954 95

16MB RAM, 130MB 256 color video, 4x CO-30 Support: None iltiplayer Supper

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#### **Unfinished Business**

lerra has apparently decided to complete Roo Boxor II's development in stages-after putting it on store shelves. Current elses call for three major patches. The tirst, a beta version of which was available at fig //flo.dyramix.com/RedBaron/V at gress time, fixes most of the worst burs frame crashes, self-resurrection aces, blocked campaigns, flights circling endiessly over the starting aerodrome, and time compression not deactivating when enemies are near) and adds several welcome enhancements. For those who distike virtual cockeit panning views, the set of fixed views has been expanded to offer total coverage akin to that found in Am Wassee and Wasses, albeit with a clunkler interface. Screen shaking now presages stalls, warning you to back off before it is too late. Brightly colored tracer graphics make gunnery easier, though much more trequent gun jams will force you to fire in shorter bursts. The internally accurate groundlire has not been taned down, but flight altitudes have been increased enough that you will be able to avoid the worst of it. You can also reduce its effectiveness manually by creating a new file called rh2sim.ini and populating it with the following (lines must be double-spaced to work):

[Baron]
bulletMassFastor = 180
groundGamerBase = 800
groundGamerNoise = 180
ecoundGamerNoise = 180

The next patch will feature recollibrated tlight-model parameters for far greater realism in alicraft behavior. The final patch, expected mid-year, adds suggest for 3D accelerator cards.

Multiplayer laws will find they have their own set of patches. Although several head-to-head (but not cooperative) multiplayer options are available, they require a different downloadable patch just to work at all, and will not dinore these better they are stable.

Although the planes are pleasant to fly and each different type has a durinct and constraint feel, the flight model is too forgiving to be truly scaling, even at the most sufficients setting. Stalls and spins are very turne, and the vertical performance of most planes is resedence

strenger of most jures is overdore when facing one

MISSION: POSSIBLE Complex missions are a snep to create using the mission builder's optional ability to start you out with a full set of historically-appropriate flight plans.

Fortunately, those lapses detract little from the same exceptoredly fun dogfights, the main consequence is to give you a slight edge over the computer opponents. The All sality varies, but you may be thankful you have that edge when facing one of the more formalishin.

aces Despite its combat provess, the Al occasionally messes up at simpler tests, bittlely cavegeting into steep hills, refusing to take off, or augering in when felting of low

Part of what makes RBIB are combut so immersive is the complete situational awareness provided by its effective combination of food and annihilating parliads where Accurate the delection and cantaching durangemodeling also contribute. Depending on where and low lead a piene is list, it is might suffer worse, depens of corridor despraddors, ware gare trucks, weakened or low ving acching, or of leads list on or low ving acching, or of leads list on part midtally lead to neglig engrisp rhos. If your engine crupts in flames, you gestually have two options them to death to all.

out without a parachate. Choose wisely, Cophically, the fully texture-mapped sim environment is attractively detailed and functional. However without 3D. card support it can't match the visual splender of its 3D-accelerated competitors Frame rate on a Pentium 166 system. at moderate detail settines is adequately emooth, with occasional slowdowns. The clouds that appear in screenshots on the same box were vanked out for performance masons, which is probably aut as well. Making up for the less then stellar graphics. RBII boosts on impressive array of sound effects. Wing soons creak when about to give out, air-raid steem blore from threatened perodromes. and emshing strengt stops, crackle, and counch as they cartwheel to preces across the rolling French countryside

#### WORK IN PROGRESS

Ris B MAIN! It is a durated in the total to the total to them with the bugs, which daded vassels, and minor thousements. It will exempt to the option the option the option flat B MAIN. A consensually achievement as is, this is the potential to fellow its programm as a time guntal same gifted time, but only if Dynamia comes through with its promised flight model, multiplayer, and SD-secolerated graphics portacts.

PAPPEAL: Anyone with an interest in peop-driven lighter contact who desert demand 30 card support. PROS: Great atmosphere; very large scope; dynamic campoign and mission ballder provide encomous reptay value; good dopfighting Al.

PCOMS: Sweral crash huge; simpified flight modeling; tack of 3D card support; no multiplayer care-



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### Strictly Semi-Pro

### PRO PILOT Took Off Before the Flight-Testing Was Completed

by John Nolan

the marketing waxaeds at Sierra unabashedly boast that Stema Pixo Pixov is the most technically accurate, intellectoally demanding and authentically tour-to-life (held significtor available for the home PC." If only it were so! This lone-awaited civilian flight sim had the benefit of starting with a fresh design, free to be all that it could be." Alas, the opportunity shopped away.

#### HEARTLESS

The core of any flight simulation is the flight model; without a quality flight model it becomes just another a game. PRO PROT is proof that some producers either don't have a grip on the importance of an accusate flight model or don't feel it's necessary to provide both simplified and detailed models. The Cessoo 172 is a common crydum alsoroft. one in which many edots and potential PRO PILOT bayers have some exactionce. Full to model this arcraft accumitely and the coedbility of the entire simulation is colled into question.

The Cessna 172 in Sierna Pao Pacer is not perticularly well-modeled. A brief "formiurisation flight" consisting of takeoff, departure, slow flight, stalls, spins, steep turns, and a descent to approach and landing reveals guite a few shortcommon There's no you when you not the power up for takeoff. Once sirbome, if you turn without using readder, the ball quickly centers without any pilot toput. The nitch attitude to slow flight is almost identical to normal cruise. "Junds off" stall recoveries with no altitude loss aseroutine, and the strendt can't be put into a fully developed spin. On approach, lowering the flops doesn't seem to add any drag until you reach the full down position. These characteristics involve casual approach to the flight model, indicating that the entire lift/weight/

thrust/clear relationship poods work



#### IN THE DETAILS Pro Puor features increasely detailed, locable instrument panels, and atmost everything works with the click of a mouse.

before Stema can rightly make its "trueto Mc clarm.

#### OUT OF THE PICTURE Another critical element is the graphic

environment. Once again, Pao Picor falls to masimize its opportunity. While the covironment is sufficiently detailed at maximum settings, the araplues not only don't advance the state-of-the-art, they tro-odf Joseph mirely the state of the ort-Low-altitude lunchcapes are blocky and produted Caroking the graphies options to maximum presents a severe chellenge to average computers -- views are slow to change and there are noticeable

names with the Typical" 52MB installetion Installine all the scenery belos, but requires about creditor 490MB of hardone space. Toyokine the options mema will

eventually result in

a weble frame rate that may or may not provide the amount of detail that you personally require Clearly Sterra missed the flight when it decided to forgo 3D. acceleration. It's incredible that this one shipped without it. (high) simulation

#### video reusirements make # almost mandatory. THERE'S STILL HOPE

The program does have several positwo aspects. The Capund Lessons are well done Thirty-one video lessons cover various aspects of flying, with most lessors nurring about two mirrates. The





another indication that Pro Pror was rushed to market?



PATCHWORK QUILT Terrain is best viewed from a high attrade; at low attrade it just doesn't look very realistic, as this shot from 2,000 feet reveals.

arrimation is very good, usually displaying interior coelapit control movements and corresponding exterior-view abstraft reactions while the instructor gives the briefing. These movies are useful for both the sm and for actual flying, it's clear Sierra did its homework in this area. Stiff, if you think you're going to learn everything you need to know about landings in two minutes, it's time for a reality check, The Air Traffic Control feature is

another plan it is dis important realism to the simulation. Also, there are effected, such as when the controller keeps resenting the "Chiesh to 7,000 feet" instruction for several misures after von've leveled off. It aust doesn't respond to your actions as well as the ATC in FLICER UNLESSTED II did, which lends a "canned" feel to the experience Perhaps the best part of Pao Pacer's

the Fhight Assignments section found in the Flight Companion handbook; finally there's some interesting flying to do in a civilien flight sim. These 20 emss-coun-

try trips are flight-planned and come with reasonably detailed written matrixtions on what to do and expect on the trip The Air Traffic Control feature ties in with the flight plan, and you bear malistic instructions from the controllers Of counce, as with the rest of the program. there's evidence that the developers made last-minute charges. The book descriptions often don't match the controller's netructions, another example of the lack of testing that went into this game 'These 'naissions' are the fetine of this simulation; as inestable sevisions rupuwe the flight model and graphics. this feature could move Paci Pitor to the head of the pack.

#### POSTFLIGHT DEBRIEFING

This is not a true "flight strengtoor"; the freht model is just too far into the areade category to meet those burb standards. Now you know why Siems has a floshing Boyond Real aurobic on its Pac Pit.or Web page, the flight model is so far beyond real that it's irrical. Still, the

flight characteristics are satisfactory for

Graphies are about average, but it's the lack of 3D acceleration that really makes the biggest visual statement in PRO PILOT. It's not a positive comment; the current crop of inexpensive state-ofthe-art 3D accelerator cards make this a

colossal oversight. On the bright side. Pro Prior is a good cockpit procedures trainer, the complexity of the coclett modeling and the checklist feature set new standards that competitors will be forced to match A fairly complete set of airports across the US and accusate terrain elevations mean that most Assertion earners will be able to practice flying from their local amorts Furthermore, the documentafrom is a cut above the connectition in this category. The Flight Assignments section of the Flight Companion is especially noteworthy, this pense has needed something like it for quite some time. Overall, the simulation shows promise. but it appears this fledgling was licked out of the nest a bit too soon. %

PAPPEAL: Ovilian flight-sim fans and student pilets willing to work with a sim still under construction. OS: Realistic, educational Flight Assignments; good ground lessons in movie format, excellent flight-companion handbook.

COMS: Flight model won't satisfy reaftsm devotoes; desperately needs 3D accelaration; eraphics are just average. AEC system has stuggish, rigid Al



### Do It Right or Do It Over

n a sad commentary on marketing department influence on game release dates. Sierra released a major patch for Pap Paut (visit www.sierra.com) very soon after the game's release. This is a "good news/bad news" situation. It's great that the developers immediately went bug bunting, but it's ineccusable that they shipped this program with so many defects. The READ.ME file for the patch details 34 bugs that were stomped. Some of these problems were truly minor, such as entting the correct takenff time in your lochook when taking off from nontower airports. But far too

characteristics on all five aircraft and fixing the Baron so that it didn't run out of fuel in 20 minutes. The patch Improves the flight model, the 172 demonstrates a terque effect on takeoff and the drag effect of the flags is enhanced. While the flight model still needs work, at least Sierra admits it needed improvement. It's incredible that such problems are even present in a nonbeta release. As Cliff Shiers, the best navigator I ever flow with, used to say, "It's always easier and usually cheaper to do it right the first time?"

many of the problems were major, like correcting drag

...YARMOOR [YELLOW] DEFEATS FLATLINER [BLACK] IN A SANCTIONED MATCH ON SOLARIS...

Stone -GrpW-> ----: Where did DW's Banshee go?

JT Chance -GrpW-> ----: It shredded my gyrel

I'm out! DEAD!

Stone -GrpW-> -----: I'm gonna need help

- who's left?

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### **The Sky's Unlimited**



#### Noncombat Flight Sims Take a Big Step Closer to Reality by Denny Atkin

n real life, most of us are never point to set a chance to fly in a hijh-performence fighter jet. But as unplamorous as taking the controls of a Cessoa 172 Slothawk may seem to gamers trained at the controls of virtual

F4U-1 Consists of F-16 Filcons, pilotine a real plane — even an marmed one over friendly tenitory-can be quite thrilling. Tilling in the scenery of your neighborhood from 3,000 feet while watching for other air traffic is more exciting than even the

most hanted computer air combat when you factor to mobite I've flown nearly every cryftan flight simulator ever released, from the original FLICHT SMULATOR to SOLO FLICHT to the latest FLICARY SINDLATON 98, and

none of these has captured the exhibitstion of real flying. They're over for learning instrument procedures and general plane handling, but with surredistic atr traffic (or none at all) and no communications, it's as if you're flying in a Tigiliahe

Zone episode in is the only plane left in the world. It's an odd world at that, one where you get excited by socing one recognizable slasemmen in a city full of bases in a land of

petchwork-ouff: terrain and polsago rol mountains Now, for the first

make this the best-looking San Francisco vet some in a simtime, a flight sinulator has captured

the seal feeling of civilian flying. With the most detailed, vivid environment ever to space a flight sim. Flacter UNLINETED II is the closest you'll get to knowing what it's May to fly a small place. short of a yest to a flusht school. SMALLER SCOPE

To be fair to the connectition, FLICATE

Il menuees thus level of detail by providing a very Amited flight mea - the San Francisco Rev Area from north of Calistoga south to

Monterey and east to Sacramento, The designers have used detailed satelfite magery to map the ground, with more brildings and land-

simulation in which sightsecting is more than just trying to find where the programmers have thought to place a set of polygonal buildings. This detail is available with or without. 3D acceleration, but if you're using a supported Direct3D video card, the image will be improved through resel filtering and a smoother color polette. I tested FUGIT II on a PI66, and frame rate was good with or without 3D accel-

eration. Even at 800x500 resolution, I got

around 17fps without 3D acceleration:

24for with Of course, FLICHT II represents each of the Boy Area's 40-plus surports in full

CITY SLICK Polygonal buildings dropped on satellite irragery

up above 1000 feet the view, with a reso-

lation of 18 feet of real terrain per poxel, is

startingly realistic. And while 18 feet per

makes it possible to pick out motor bush.

ways, large buildings, small parks, and

other prominent landscape features. I

early spotted my apertment building

and was able to follow a road from the

hebthouse at Point Reves to a hotel I'd

stayed at 20 miles away. This is the first

pixel may not seem that detailed, it



Priorie Sate Of



marks represented in detailed polygon realistic, but what are you doing in these sizes in a Cessna?

form Once you get

.HP 4: COURSE 121 AT 12000 FT ETA 1:18..CHANGE COURSE TO 140 LEVEL AT 10000 FT...

GunJam: bandits, 6 o'clock high!

HiTech: i'm done -- bingo ammo

GunJam: run low -- i'll cover you home

HiTech: roger that -- p51 closing fast!

GunJam: pull left! PULL LEFT!

GunJam: HiTech!?!

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detail, complete with accurate treasury layouts. One nod to playobility is the inclusion of very large treasury marker signs—so large, an facel, that you can elip off your wing on one. (The first patch allows you to sharek the marker store), treasure you to thank the marker store).

#### THE RADIO DIAL

The detailed environment pseudoscore level of manuscript this inclusion. The conley inferentive air traffic central (VTC) and dozen on detae attent fish many suraspaces. The ATC is a step to learn Noturioff respects and responses from a neuron of appropriate choices, much in the mismost of the Lucaschita SCLMM advanture system. The fish most part, the ATC is very good at responding, appropriately by your action, even warming other places that there is "discovered account in the paction," when you do not

airport and ignore lower requests You'll need to wait your turn to communicate with ATC - there can be as many as 200 other aircraft in the Boy Area respace at any time, trading around airports, flying approach or departure notterns, or simply transition the area. These super from other perional aviation planes to arrivers and writtery sets. One erest touch is the ability to pop into the cockrat of any other plane in the area as an observer. Watch a 747 through takeoff and climb, or sit in a Beron as it. enters the approach pottern and lands Richne alone in other small planes is exect for retting a visual flustration of how supposed patterns work.

You can file IFR (instrument flight roles) flight plans specifying your route, or you can just turn off your radio and fly visually around the area. For the first time, you can actually practice cottering an accrossib pattern with other aircraft.

#### Truly Unlimited

In you know that you can try your hands at the contribe of an aple lone for these than the contribe of an aple lone for the set in the contribe of an aple of the set than the contribe of the contribution of the



SOMETHING TO OO Float Universe I includes a warmy of adversaries; some are realists, such as landing in heavy top, while others are more famoful, such as halping presents accept from Austrac or doing the Yarlay Dop.

The weather effects in Flucter II are amazing, with min plattering on the windsheld and lightning to the sites Yould probably rever if your of these places in much severe weather, but the effect is still dramatic liquid much safer than trying to experience it in real life)

#### THE PLANE TRUTH

Flight models are farly good — much better than Pix Pix Dix Milhough on typ to the level of Fixtern Soykurzon SS. Stalls seem well modeled, but it's far too difficult to spin most planes suless you also an intiff it. There are lets of rice effects, such as jetwash when you fly or took your tray croftun plane too close behand a simble of

You can fly a Cossna 772 (referred to bere as a "Tissiner 172," perhaps due to licensing issues with Cossna), a Piper Answ, a Beech Basen, or an

> amphibious De Hwilland Beaver (which you ern indeed land on water). There's also a P-51D Mustang, but slass ifs unamend, so you'll need to use the karnifuses approach to down aithness heatement peach

are nicely done, with fluid movements on instrument seadouts. The instrument stack is fairly complete, although it linels an actorilot.

There are a few drugopointements here. Although there are numwy lights at night, the Bay Area seems to be under centuals taleshort conditions. And many one-Bay Area readerst will find it at downers not to have the local sipport included, However, Locking, Classa has made provisions for both their party aircraft and fexerin add-one, and the flust new termin area at already and the weeks.

PLACET (VALMINIZE) II is a mant-lawer processing the contraction of the conditions of the

for any general-avairance exhibitions. If you're set on having large terrain areas and your local airport, then by all means pickup a copy of FLOETH SAMLATION 50 or PNO PILOT in addition, but don't miss this one. §

PAPPEAL: Aspans interested in flying small (unarred) planes.
PAPROS: Unprecedented terrain detail; interactive air traffic control; bases ables; anaxalay weather effects.

CONSI: Limited terrain area; es city lights at eight, sieus virtu-



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### **No Strikes Here**



JOINT STRIKE FIGHTER HITS A HOME RUD

by Scott A. May he F-22 won't be the most advanced aregult in the sky for long Next year, that title will shift to the Joint Strike Fighter, a new fighter/attack award being designed for the Navy, Air Force, and Morroes This bish-tech fighter's advanced automics. will enhance the fishers. hardine assistan saykalibis and lethality. These characteristies have allowed Eldos to create a same that's instantly accessible, even to novice offots, without it necessarily being unrealistic Soul KONT STREET FIGHTER seems to fly like an areado sizo, thereis good season

COMBAT PANGE Developer Innerloop has designed ISF as a relatively manufacian combat

strn Newbies are able to jump right into death deefeld action, matchine wits and for nower with the likes of Su-MrG-29 Fulcroms. with minimal preflight briefing from the arme's excellent 144-neer manual. Veteran pilots, on the other hand, will enjoy the earnogism editor, multiplayer

options, and bounty

of skill settings.

enemy abilities.

Plots ean choose between the Boeing and Lockbook Martin carefidates for the ISF contract. informational videos sive the background of each plane Skill settings let you togale

lenee, and fadoouts, plus five levels of

Camenlay is divided into three sectrops doefight, comparen, and multiples: Dogfight drops you instantly into sental battle over one of four theaters of ecothet Afrikanstan Colombia Kossa or the Kola Permuda Doefehts can be used for tariting or morely to get a quick action fix without loundings a full-bloom mission. Ontions available during doefights include time of day, weather conditions, and number of enemy alresult. Two of the most interestant doefasht acttings

> Redged sausdroo-level doefights Multiplayer games allow up to eight players to compete in either cooperative or competitive doesights, over LAN or Internet connections 'Iwo-player head-tohead hittles reconcited as a modern or serial cable are also available All nursuous

missions flown in one of the hypothetical scenarios. What's unique here is the freedom allowed in choosing massion tactics. Although the overall earnipages good is pre-scripted, how you complete each understand massen is entirely up to you. The Mission Planner screen features a topographical map of the serion, with sons designating enemy and affed units. wayounts, and target obsertives. Edit mode features a point-and-click interface that lets you early draw your own are Curs Only which disables o'r-to-eir flight paths, set waypoints, and select tarmissles for more close-in-and-peneral gets. Along the way you can also access acrial dock, and the ability to take wrigdetailed information on toracts, terrain, men into the fray, which simulates fulland opposing forces. Respettably, there's

#### no multipleser provisions for campages.

SOUND AND FURY Designed for both air-to-air and airto-ground combet, the ISF features a 1,850-round 20nm cannon and the plane can corry more than B,000

nounds of onlyance. including a variety of pent-penetion "smerf" borobs and missiles As in pro-

posed real-life bettle sceneros, year ISF often fles with the support of F-22. Roptor winsmen. Radio communications and wingmen control options are Prinec 549.95 surprisingly elaborate for such a mainstream sim, featuring

16MB RAM (32MB recor an array of formation, engagement, navigavideo, 4X CD-ROM, mouse, 30 Support: 300:

ner: Innerload

lattiplayer Support: LAN. Publisher: Eides Interactive



VIRTUAL VIEW JSF's virtual cocked features functioning instruments as well as a helmet-mounted HUD display.

destight actions apply to multiplayer butfies, with the addition of turne kill limits novice-friendly options such as automatic and preade-sivile, on the fly refueling and target leading, cosy knohngs, wind, turbuamno redeniding

Campaign play is definitely the highlight of ISF, consisting of multiple

into the fighter's half

Innerloop's ISF graphics technology makes ofteny frame rates and close-up

from and states

termests Com-

nearly towers and AWACS also plays a

bie part in mission success. The plane

uses "smart skin" antenna arrays huft.

respiration with

www.eidasinterac

#### Cheats and Tricks

etween doglights and multi-mission campargris. take a break to try out these two hidden goodies

Din JOHT STREE FIGHTERS . Start a campaign and ball out, preferably over an

airbase or nearby city, then mude your night's nerechute to the ground. While most flight sims and the mission upon touchdown, JSF actually lets you walk anywhere, à la Doore, with nistol in hand. Granted. you can only shoot at planes and structures, but it's st# a kick. It also gives you the opportunity to view the game's detailed graphics-trees, buildings, and the (Ne--up close and personal.

. The other trick requires a helping hand-or very fong fingers-but is well worth it. In the Pilot Select screen, hold down both Ctrl keys white selecting your arcraft. You can now choose to fly any of the aver-

able ascraft in the game, including Soviet MrGs, B-2 hombers, and Bell helicopters. You won't see a pockpit display, but otherwise, each alicraft is fully functional. Switch to an external view to confirm your new craft. This undocumented feature is a great way to liven up doglights or put a new twist on campaigns.



HUEY RIDE The "fly any plane" cheat even lets you take helicopters into combat

FICKLE 30Y

prediction a thing of the past (note that the frame rates here are much faster than those in the demo version released a few months back). Capable of resolutions upto 102/96768 and 16-bit color depth, this could be the most intricately detailed flight size that doesn't require a bleedingedge PC to appreciate The ISF technolone also means that realistic mound testure -- all 10 million-ples agrees males of it - looks as portpoors at 10,000 feet as it does at a mere 100 feet. No pixelation. No sussed edges. No holl ISF supports 3Dfs Voodoo vidro

conds for optimal exaplue speed and detail. But if you've not bought into 3D yet, don't fret. Even without hardwore acceleration, lunciforph software-only graphics engine delivers a surprisingly rich environment and decent frame rate. I ran the some on a enotchety old. Pentrum 133, using a generic 2MB SVCA cord, and way shocked at how.

strategic, offensive, control, status, and info -- can be viewed either full-seven. or in virtual coekpit mode. along with bead-mounted targeting displays. The game features more than two dozen real-time views, including player, wingman, external flybys, massile, satellite, target,

beautiful the same looked at 640v480 resolution and 16-bit color. Special effects such as lens flores, minife trafts, is its fielde control configuration, which and water reflections came through just tends to lose josstick settings from one fine And despite on occurrently signal session to the next. Even when properly statter, the manation was fost and flord. configured, the game sometimes fails to On the other hand, when loaded onto a Pentiam 233 MMX machine.

with 64MB RAM and Morater 3D video, this sucker seroums. Special weather effects, such as sain, snow, and for, also give the game extra visual punch The sensation of speed is incredible, especially during lowaltitude flight (which is a breeze with the ISF's termin avoldance features). Indeed, this sim's preacle feel is true-tolife, based on advanced technology, not sloppy programming

Enemy Al is tenacious, but not overly purishing --- until you venture deep into higher compaign missions. Multifunction Displays (MFDs) ... ottack

> and enrand vehicles. Also Missiles produce wanderful

issosius ent tests and solid.

realistic explosions

recognize certain button functions, such as the hat switch on my CH Combat Stel: Otherwise, roystick control is tight and responsive Although the JSF is a strike fighter, your usurmen seem interested only in air targets. So you might as well plan to bring

One of the game's few problem areas

alone F-22s as wingmen and take on the responsibility of sir-to-read combat alone. Exceptionally fast, user-friendly, and

loaded with visual eve candic JOHN Struce. Figures takes the lead in the neet generation of manyleom ar combat. sms. If you've been danned by steep hardware and skill requirements in the pest, this sims for you. &

PAPPEAL: Register- er intermedi ato-level combat pilots looking for as easy-to-fly plane and a game with replayability. OS: A real speed dem or without 30 hardware; beautiful

hies; mission editer adds der sm and skill





frame rate, even on unaccelerated systems





# for the ride VOUT life?

The find one of 18 trisked out inequa-barsepower stoescars and by down some significant nobles. You as included driver on moc on dozene of rendom and historical golf stretch, some treams and country tracks. Bloom titions change on you from thanderstorms to dense loo, but don't let that nin your Gunday aftermoon drive. Because or makes, you can always enter the ultimate destruction errors and experience beliet to the wall ecition (see six between your less and like your assorted extraction care and experience beliet to the wall ecition (see six between your less and kine your assorted out party good-by-because Uniferité Rese Poir la enhance in fait of a ran-























# **Can Solo**

# LucasArts' Space Sim Gets an Injection of Solo Play Value compaign is a cut-

## by Thierry Nguyen

AVING VS. THE FIGHTER. was set to enter the spacesim arena as the ultimate Star Waysim, After all, who could resist the idea of a multiplayer TIE Ficarray Unfortunately. the space sim was severely lacking in single-player gameplay, and had little of the feel or manersion of the previous game. Though it was a pretty good multiplayer game, there was little incentive to play the game alone. But now, with the BALANCE OF POWER (BoP) expansion peck, the game is worth booting up even without a net connection.

and-mouse-style hunt for a Robel shaward, My one complaint is that a couple of the missions still seem optimized formultploses, as they sometimes demand that you be in two places at once. Though I was still able to get by them, I would gladly accept the help of other pilots in

BIGGEST STAR OF ALL For anyone who's ever worded to five with or against a Super Star Destroyer, this is for you

it asked me to swap discs right from the

different. I also noticed that there were

cutte a few lock-ups while playing a mis-

sion on my machine. The music would

start to load, and the same would freeze.

forcing use to bit Alt-F4 to exit the surne.

of sande-player in the original release.

BNANCE OF POWER will give you what

you need. It finelly makes XVT a com-

pelling single-player experience, one with

If you were disconnected with the lack

beginning, although I had done perfore

BALANCE OF LIGHT AND DARK BALANCE OF POWER adds two unique

15-massion camposens (which include the cut-scenes lacking from the original come) that can be played in both itsele-player and multipliever mode. Because the come doesn't have the TIE Defender nor the Missile Boat, the compotens (thouldully) don't have the play-bolance issues that crested borne missions in the later TIE. FIGHTER compolers. The cornectors have interesting storylines, and starenati are on more or less equal terms. The Rebellon campaign focuses on guerrilla warfare, with the finale of taking down the SSD Vengeases; while the Imperial

weapon transfer for the Rebel carmaign). The come also adds some new melec. combat, and battle seemates for multiplastrolay; Direct3D support, and the B-Wing for Rebel players to fly. In addition to the B-Way, there are a number of other capital-ship class vewels, such as the Super Star Destroyer and the new Modffied Strike Cruiser (a sperificant portion in the Rebel comparen involves creating this new shito). Direct3D support didn't affect the same much: it. seems to merely smooth out some testures and speed up the frame-rate during moments where it may have bogged down in the original game, such as when

these particular missions (each as the

there are three Star Destroyers with full complements of TIE Advanced flying toward you.

> TRAINING IS COMPLETE The main problems with this pack are its convenitaction. some lock-ups, and its tardiness The same requires the original XvT disc, and will ask you to put in the BoP disc as well. Even with the full install, its behavior was puzzling, as the game seemed to randomly ask me to suon discs.

In once instance, I didn't need

the BoP disc at all. Another time.

a feel more like TIE FIGHTER. The ultimate Star Waygame still has not been created, but with this expansion, XVT feels more complete. It's a pity the original release wasn't this good & PAPPEAL: Anythe who hought X-Was is. THE Forms and was disap-

selected with it, especially in regard to single-player. PPROS: Well-dans single-player care paions with deport plot and pood play-balancing; a new ship for the els: multiplayer enhancements.

CONS: Weird and annoying coor etth mee th of this ald have

on in the ori





STAR DESTROYED Direct3D support smoothes

out textures when flying class, makes transparent explosions, and uns the frame-cate.

it could be nal release





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	Simulation	ACM	Brelistk Strakh Nede	Scaleable 30 Mag	FREE Sufertace
DID F22 ADF "- Ocean	YES	YES	YES	YES	YES
IF22 <sup>34</sup> - Magic	NO	NO	NO	NO	NO
F22 Rapter** - Hovologic	NO	NO	NO	NO	NO
Hil™- letepley	NO	NO	NO	NO	NO











# TRAJOSPHER

COMING MARCH '98

# **College Try**



## HEROES OF THE GRIDIRON IS AN Interesting. But Not Great, College Football Game

## by Dennis McCauley

ike many a freshman whose debut is deliwed, ABC SPORTS COLLEGE FOOTBULL HIRRORS OF THE CHIMBON Was red shorted last year so that O'll Sports could notish the engine. which also served as the engine behind Mossow Nicoro FOOTBALL'98, This was a one natural Dan good move in terms of sameplay, but the company itself, as reported.

in my CCW column last month fissue #164, pg. 233), is in very dire straits Like its NFL big brother, HURCUS is a sophisticated football strategy sim with a alitzy TV sports theme. Unfortunately, HERCES' front-man is long-free voteran. college football broadcaster Keith Jackson, who may be knowledgeable. but his a bland-as-natineal persona that lends no space to the package. Color

commentator Rob Oriese and In Krime studio host John Sounders also do 1916e. to rrome up the same's excitement. Despite the broadcast team's dry presentation. HEXCES succeeds as a college football vira entirely on the ments of the finely-tuned MNF '98 engine And therein lies the rub. Is HEROES a game in its own right, or an MNF add-on module, and one with a rather horized

## scope to boot? RE TRUE TO YOUR SCHOOL

Cive OT Sports credit for an impovative approach. Taking a historical perspective to the college game, HERGES offers a selection of 32 top schools and stocks the teams with all time waters. rather than this work places. Coach the Penn State Nittary Lions, for example, and you'll find Todd Blackledge handing off to John Cappelletti and tossing short outs to TE Kide Beady. The Fighting Irish of Notre Dame might line up with a dream backfield featuring Paul Horning at QB, flanked by Ricky Watters and Jesome Bettis at the running back spots.

Unfortunately, the rosters are noticeably overstaffed by players from the 70s, '80s, and '90s, and several stars play under assumed names. You won't find Fron Tarkenson on Georgesk roster, but some-

Barkington is wearing his number. Ditto for USC. where B.I. Timoson wears Number 32, and stars at tailback for the Trours (Sheesh, these aftases can

be murder() Fortunately HEXCUS' roster offitties allow you to edit player names where appropriate Cameplay in HERCES follows MNF '98s tried-and-true formula Coeches use a sample, yet sophisticated, play-cally a interface that allows no the fly editing of virtually any aspect of play design

Formations, assignments, pass routes, coverages, and bitizes can all be advasted with a mere click of the mouse Genera can also create and edit coaching profiles that determine play selection during compater-simmed sames, and that suggest a script for plays during coached games Unfortunately the playbook is remerkable similar to that of MNF 98, a fact which does little to establish the college name's

volue as a stand-alone sim While the pune's Al is challenging, its real strength lies in head-to-head action over the Internet, which is a simple affair. There are plenty of other multiplay options, and the game includes an extra CD to pass along to a friend for head-tobead play. For the prolanguin-led.

HISCOS allows for league or tournament nlw. involving on to 32 teams. Comes can be quick-simmed, although autoplaced sames result in unrealistically low scores, with frequent shatouts. While OT Sports is aware of this, it's unclear how the company's recent curbacks may affect its ability to address such assess.



WARSITY COLORS The game's graphics are quite good broughout, even without 3D technology

### REO ZONE

There's room to wonder if this game int) really and MNF '98 in a samity swester With only 32 teams. I'd have felt better discoving with the multimedia segments and phagaing the classic teams into MNF 98 as a lower-priced add-on

Betweed Hences of the Corp. DON is a quality product. The questions revolve around its value as a stand-alone product, and whether or not it packs genume simulation value. If you've interested in playing for a national championship with this year's college rosters, you've in the wrong stackum. But if the onneal of classic gridion matchaps with a selection of dream teams puts the lime on your hash marks. HERCH'S could be for you. 9.

PAPPEAL: College feetball fame PROS: Cool selection of former college stars; excellent play-calling and play-design interface; free Internet play: Improved graphics: ed computer Al: league and

umament play. **FCOMS: Stats** skewed toward notice of ns: bland





Price: 539.95 Pontium 100, Windows 95. 16MB RAM, 2x CD. ROM drive, SoundBlaster 16 or compatible sound card, 2MB Win 95-complant video card 14,4Kbos modem and ISP required for Internet play. 30 Support: None Multiplayer Support: Modern, LAN, or Internet (2 players): 1 CD per player Developer: OT Sports Publisher: ABC

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# **Back on Track**

NASCAR 2 Revs Up Again With GRAND NATIONAL SERIES EXPANSION PACK By Gordon Goble

ver one year has passed since the release of Sterm's NASCAR RICING 2, anynably the finest hard-core auto racing sim to date, and thatk a very lone.

time in the computer gaming world With NASCAR RACING 3 nearly a year away and virtually every other stock our name just that -- a sume -- what's a socioe scalist to do?

That NASCAR developer Pagenus Design Croup to famish the answer with their latest bank of racine software, the NASCARCEAND NATIONAL STREET EXPANSION PACK, which offices 12 new tracks for NASCAR 2. It also addresses NASCARi, more approving quirks - stuff Nic unrecognized control devices, unsur-

able siges, and bisame pitting rituals What the expansion pack won't do is scat you in a distinctive Crand National Series car a muchine that in real life is less powerful and lighter than its NASCAR Cun counterpart It also doesn't fix certain Al problems, most noticeably computer drivers who somehow still refuse to reviente around slowed or stormed tars, and it doesn't seem fully optimized for 3D, as it has successful dow frame rates. Nevertheless, the 12 new turcks (10 real

tracks. 2 fantasy tracks) and new seasons breathelife into this aging game. Here's a brief condemn on the period benefits Bull Bun Baceway This imediatry 3 femile course is narrow with lots of lengthy straights and browselety braking goess. If this isn't the touchest NASCAR road

course, then it's close. Design Group Galifornia Speedway Like the Michigan Bellevus, WA International Speedway; only tougher, (206) 549-9800 Don't be surprised if California's scary www.sierra.com



CURVES The Red Rock International Receiver is one hun forteey tracks included in the expansion set turns wach out and do your wheels out

from under you if you don't show them appropriate respect. Gateway International Speedway You'll have to drive turns three and four for differently than turns one and two on

this skewed 125-mile oval. Hipkory Motor Speedway Arrist 363 note this is the shortest track in the NASCAR arsenal. If you can slow it down enough in the turns and have encuels naturace to let the traffic then out off the start. Hickory is a fun place to drive Apersonal favorite of mine.

Indianapolis Baceway Park Curously easy, the .7-mile IRP oval features very little banking and a wall that pulls you toward it, and was a great way for Proving to get the "I" word into one of their products again.

Attheautee Aftle A well treat for anyone who's been driving a Prpyrus CART car on this thing for the last few years. through Milwauker is one of the most graphically sugged and "spankly" courses there is.

Myrtie Beach Speedway Avisually dark 12-mile oval, where it's extremely tough to beeak free from the processional nature the pockmust observe

Nashwile Speedway USA Nashville is one of the pecticat custionments in the game. You'll quieldy get used to the dips at the end of each strught and approciate the track's accommodating nature. Experienced drivers may find their car hooks up a bit too easily as seems to be the ease with several of the new circuits

Mazareth Speedway Nazareth is skinny and oddly-shaped - almost a tri-oval but with more tunes With its unique structure and arriple scentry, it comes across fise a slice of Workins Clear and is very tough to drive.

Red Rock International Raceway The other fantasy course, Red Roek is a big, unde road course set amidst seaside mountains. Hogs looping elevation changes and unrealistically high speeds make this a bit confusing at first, but there are lots of racing lines and spacious turns.

South Boston Speedway There's plenty of moun down low to help purpel you part brebuile traffic on this ultradiori (.4 rufe), but wide, oval. Run at druk, the senbrent hobring is correcous

Texas Motor Speedway A15-mile oval ice rink for the first few laps. TMS becomes a different beast once your tires worm up. Varied benking and tri-ovel characteristics keep things difficult but

this is one of the most rewarding tracks PAPPEAL: NASCAR 2 fars looking for more hard-core racing action,

PROS: New tracks are mostly reat and breathe new life into MASCAR 2; fixes ms with CONS: Still some Al probs; frame rai not great.





1 CD per player Designer: Papyrus Publisher: Sarra Do-Line In the flickering torch light, you follow the glint of cold steel. With assured stride, Madra the warrior leads the war, her cruel blade already drawn.



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# THE KINGDOM OF





# **Weird &** Wonderful

## The Logic Factory Moves Beyond ASCENDANCY by Martin Croft

HE TONE RESELLION IS ONC. of the weiglest things I've scen in 15 years, a mix of sheer genius and curious lapses-vet Learn't step playing it. How best to describe #2 Imagine if you can, a world designed by the Catalan architect Gard (famous

for his buildings that looked like malignant organic exactle), with most from horreneweister H.P. Lewceraft and science-fetion writer H.G. Wells after a had bit of curry. and you begin to get the idea

You control odd jellyfishlike cueatures (Flooters) that live on fragments of a once-mights planet, and who are trying to defeat the monstrous Evil Leviathen by homesone the power of a substance called the Tone Flow: The game's wild array of colors features

sturning Macs, purples, and reds, and the comes organic shapes - especially the extlones -- look like something from a medical testbook about melanema. Meanwhile, TONE's background music

JELL-O TO GO Here. Floaters stockade Yane before invading the next Levistherheld island.

sounds like Gregorian chants most Acid House you get the picture

SURREALISM SPRINGS SIMPLICITY Underweath all that the structure of the game is pretty straightforward, simplatic even. It's a real-time strategy game in which you control one of four tribes of

AVE TONE The Brotherhood of the Tentacle attacks the Core. where the background is, appropriately, blood-red.

> Floaters, each with its own peculiar powers Using them, you can harvest natural resources (the Tone pools), build strange sci-fi Victorian mad inventor buildings that process the Tone into useful stuff, and make different sorts of warriors Alternately you may smoly classnel energy to other areas, such as exploring brase new worlds, killing moraters,

and finding artifacts of power Ho, hum, I hear you say. We've seen it all before - it's fike any one of 50 realtime games we've already played, with movbe a little more sci-fi bent. Except that it isn't so easy to pageonhole this come, because you spend much of your time in Trave Reservation mind-boraled by the latest hickorus creature you han to our more Loon's remember the last time I just stated at my moritor time and again, saying, "What is that?"

Each of the floating islands that make up the game world - how many islands at play is left up to you -- is in effect a different level. So, at times there's a very Early preads feel to the game, although with strong enough strategy elements to keep TONE from becoming

a simple shoot 'em up. Each time you ftrish a level, you pick up artifacts that give you the power to construct new buildings At some point, you also have to get all the artifacts you've collected to the Lexisthmy base and then use them to Mile

TONE RESELLION ISN't perfect by any means. Sometimes the game is too surroul for its own road And while the mirrord has lots of stats for monsters. It

doesn't give you much info, and it's printed in a burely readable pothic typeface. The best was to get a handle on TONE is to plunge right in. If you're anything like me, you won't be able to son %

PAPPEAL: Amore warties a





System Pentium 90, Windows 95. 16MR PAM, 30MB hard-drive space, 4x CD-ROM, supports Direct Draw video and met Sound audio. 39 Support: None. Meltiplayer Support: IPX network (2-4 players, cooperative plant. 1 CD per player

Declarer The Logic Factory Publisher: Virgin Interactive Entectaloment Irvine, CA (ROD) 874-4807 www.vie.com

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Mike Kulas Volition and Designer of the award winning Descent and Descent II

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When Descent: FreeSpace - The Great Wor ships this April, it will do to the space combat market what Descent did to first person shooters. We will have set the new standard everyone else will have to measure up to."

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# Lords of Outpost

This Lords of the Realm Sequel Is Patchwork Magic at Its Worst by Tim Carter

n call Siena's Lonns on MACIC on infinished gune is like soving that Omposy had a few documentation problems. Louissor Macic-the logical successor to, if not truly a second of, Lerens

OF THE REAL MILL SECTtainly ambitions, It puts you into a Tolkienesque world to defeat the forces of coil unite the kind. and elean out waster dispersons and mysterious keeps along the way This is not a porticularly original premise for a

game, but it has been done successful-UNFINISHED BUSINESS

ly before

## The sad three is programming and

destan flows that will undoubtedly frustrate name aspiring overloads totally negate this name's potential. In fact, the initial release of Louis or MACIC is essentially a beta. The time sequired to load different sevens and to process other player, moves to a nymor test of patience, while the game itself enashed so frequently that Leventrally resorted to backing up after every move, Moreover, LORDS has a maste habit of confusing its bookkeeping, so that new units you have are as likely to end up in the array.

of your enemy is in your own Alan characters (includios you) in LORDS OF MACIC are much weeker than they push to be White it makes the many, elementers on both sides the contest. Many times another religon launched a sneak attack on my wealth held capital, white my your

serve for you to be weak at the start of remain ridiculously feasile throughout amy was off somewhere else. Knowing that I couldn't wo. I ordered my arches to direct their fire assinst the omnouse seneral. Most of the time they succeeded in taking him out.



## LAY YOUR CARDS ON THE TABLE There are plenty of trading options, but none for real delomacy

When the strategic game resumed. nw capital had fallen, but so had the leader of the opposition. This removed the other player from the game entirely, and made if very casy for me to retake on home city and then so on to take over an entire country that otherwise would have been very difficult to conquer. Even tice ultimate bed gay, Balkoth, the Leed of Death, can fall proy to this chorp strategy Although his army is quite impressive, Balkoth is vulnera-

ble to long-range mage fire - even when it comes from first level mores Thus, one or two smeide missions by mercenary units is all it takes to destroy Balkoth. This is a most depressing way to finish an hourslone pame: it is resoluts cent of a weak ending from a poorly-designed RPG

**BURIED TREASURES?** 

What's so disproporting about LOUDS OF MACIC is that some good ideas are hidden underseath the many flows The combinetion of turns

> with redding tack tical combat (a lensey from LORDS DE THE Resulted to restrict posity unique in a sea of real-time strategy clones. In LOROSOF MACIC however. the flow of combut tends to get

resortive after a

white

based strategy



CLIPPED WINGS in this tactical combat, the worshippers

of Air try to fly away from the mixed elf-lizardman army.

but the quick-from Even archers have their number.

patible sound cards. 30 Support: Noce Multiplayer Support requires 32-bit lowlatency connection), 1 CD per player Publisher: Sierra Do-Line, Inc. Bellevus, WA (BOO) 757-7702

WWW.sisters.com

Price: \$49.95

equirements: P100. 16MB Windows 95

RAM, 135MB bond-

drive space. SVGA

Grathics, 4x CO-BOA

aucocrts Win 95-com-

before they were overening

## Band-Aids Can't Core Everything

ords of Mydic is another in the seamingly infinite series of recent Sierra games that requires a patch tomeraly play the game. Version 1.2 allows play to move along considerably faster than the original, and now

the game only crashes about once every 10 turns or so One of the least pleasant aspects of the parch is that it makes the game's design flavo at the more noticeable.

For instance, to become the recognited lord of your people, you must free your religion's great temple from the forces of darkness. If you manage to free another religion's temple later in the game, the people of that religion will supper feelby to your as well--provided you arro't consently at war with them. As all of the other remails are weakly hald, you can double and than tricle the size of your empire simply by

noing into the opposition's region, taking the tempte in a single, easily won battle, and then moving on. All of the effort out into the various races and the fantasy buckground doesn't mean much when you can win in Lords of Must by using such a simplistic strategy.

In the final analysis, the coopy helps-moves raising the come to a 2- or 2.5-star rating-and the decens of thes it contains are far too many to list here. As of cress time, there were yet more patches on the way.

The main problem is that the terrain where the lattles take place-particulady in dangeous - is all too often the

seme old thing. But of the reason that the designers place the bottles in closed confines is to help the AL which fell apart in the wide-open fields of LORDS OF THE REALM II (though it fored better to similarly closed in costles). Even so. the various strengths and weaknesses of each racial type could offer many tactical challenges during the real-time battles, if the perne would stay stable long enough to let you get

a rhythm for combat. As one might expect. your besses and units accumulate experience over time, and the payoffs from experience are immedi-

build them up from rookies to impressive veteran formations Gaven that the name of the same includes the word magic, I expected a tetle more emphass on spell costine. Marie is present, and researching new spells and then using them properby is important to your success, but It's not nearly as satisfying as in MASTER.

Loggs of Maracuka comes with a number of options that aren't really that useful. The entire thicking system,

or More

while somewhat innovative, didn't strike me as all that relevant to winning or losing the game. Likewise, the diplomacy

DRDERED ESCORT Even wewed from faraway zoom, the onsp graphies of Loros or Maso make it easy to tell your formations from that of the enemy

interface seems very limited. You can conduct very complicated trades, but ate and noticeable. This fostered a sense you can't perform even the most rodiof lovelty to certain favorite units, which mentary diplomacy. This tends to I nurtured and protected in order to undergoine peaceful players and encourage a strategy of conquest. All of

which is clay, but I can't help thinking that there could have been so much more to the game if the "good" players could same up on Balkoth

#### BLACK MAGIC There are a lot of reasons to distike

LORDS OF MACIC: several bugs, interface problems, pitifully weak had gays, and nuttiple cashes Aside from these, the numerous design plackes should, by all rights, have killed this game the

manute it was released. Despite all this, the basic game sys-

tern is easy to learn, and the gameplay has some fun and even challenging moments. You have to wonder how Sierra could have so fooled up a wirning game system (especially Gree Lords OF THE REALM Il sold about 300,000 units). Fantaw afrewoodes are strongly advaced to get WARLDROS III or HEROES OF MICHTEAND MACIC II rather than Loses or Macic: If you are a prizzled Telldenian voteran in need of a Elven fix, don't say we didn't warn you -- and be

sure to download the latest

potch (read the sidebur first). Those Sterra will have the sense to finish the next LORDS sequel (assuming there will be one after this deback), instead of shipping it to most an artificial sales date \$

PAPPEAL: These who must have all things related to Laws or THE

PROS: Proven Least of the Roun come system; easy to lears; variety of strengths and weaknesses for each fentasy







# Second Helpings

SSI Continues Its WARWIND Franchise With a Competent Sequel by Gavin Hachiya Wasserman

the problem with developing strategy sequels is that companies have to recorcile gamers' impolses for 'more of the same" with the inevitable constitut accrues with cycle after cycle of point, click build develop and destroy SSI did a good tob confronting this problem a year ago when it released the first WadVisip into a real-time marketoloce

defined by COMMAND & CONDURANT WASCRAFT II. Surprisingly, WARWIND had a lot to offer on top of the standard "harvest, build, destroy" model four indisenous races with unique abilities; four original campaigns with different themes of empte, revolution, and spinitual sedemption, and an imagisative melding of funtasy and sci-fi As a sequel, WARWIND III sests somewhat on those Israels White

the four-way contest has been altered by the addition of two bousen contingents, most of the game mechanics are Price: 530.00 the same. System The cost this time is a little different. Requirements: Positive 90 Windows Throw are four races, but the two horners 95, 16MB RAM, 33MB ones - Descendants and Marines - are new The The Boon have managed to rein

hard drive space, 4x CD-ROM, 2MB SVGA in the Obblings to form the Overlord concost Native Windows tracest, while the Shame it have joined 95 sound eard with the plantike Eaggra to form the 30 Support: None Multiplayer Support: rebellous S.U.N faction. Each more hattles. Modem (2 players), for its doctrine's supremacy, whether that I AM Internet (2-4 doctrine is one of domination, peace, or a players); 1 CD per two one-way ticket back to Earth. players.

Developer: Dreamforce Publisher: SSI Dahne Summorale, CA (800) 801-7529

ALL THAT YOU CAN BE As in WatWiND, you recruit units by hirine them from existing townsocoole Those townspeople become the basic www.ssionline.com



BACK TO YAKAUIN Working II returns us to that war-form world. adding a human element but keeping the familiar feel of the polytrol.

faction unit from which all other units derive, thanks to extended training, class changes, and upgrades at various structures. The townspeople must be from the same races as your faction. Occasionally, more advanced units of other races may be recruited, but their skill levels are fixed and they may neither train nor receive upgrades from your faction. Because advanced units are pro-

duced from existing units, the supply of troops is finite. A faction may have enough resources to him a dozen new recoults, but if there are no

townspecule on the man. then the faction is out of lack. In multiplayer corner. this encourages early bunt ing of potential enemy recruits to remove an ercons's source of labor and farmower Each unit is turned or

uneraded separately. Not all mently are erroted ental either. Some have more "notential" then others. Once advanced training is available, units may be unstuded and trained into one of several breeds of especially fearsome wanters or powerful mages

RADIO FOR BACKUP! From the most

advanced wanter to the most humble weeker, units have different reaction times, wespon-types, nuvement speeds, and

rates of fire. Weapontypes have their indistribut benefits and limitations. Some weapers damage an area of effect and are especially road for mass

combuts or attacking structures. Others are more precise and prevent collateral damage to streetures or units. Still other weapons use magic or psionics to bypass annor and stoke at the mind of an enemy. The benefits of each weapon are incentives enough to diversify, but it is each weapon's huits-

tion that mandates combination and mercian entation. While advanced troops such as the Marine legionnaire and the Thaboon jump-troop wield powerful listers that wrok have on ground units, their



t! Air units such as the Marine Viper can head enemies off at the pass-and then blow up the pass

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# CIVILIZATION II

the IMAGINARY HORDES
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MULTIPATE AND ADDRESS OF THE PARTY OF THE PA

turns an award-wirning strategy game into an altogether new experience. Because if you thought Attila the Hun was nasty, wait 'til you meet Frank the Dry Cleaner.

CIVILIZATION I

PROSE

much range with their famethrowers, but when a S.U.N. Ramoer gets lured in close, it's toast

weapons cannot be used against fiving units Although funtrating at first, it made sense in terms of game balance, otherwise those units would quickly dominate the game. It's decidedly humbling to run your leller-cyborg away from an unarmored helicopter that a grunt with a submachine gun could non like a water bolloon. As in WudVixD, the combat imperative is toward combined-arms tactics

### ROLL 'EN OUT

Permium units take time to nurture. Luckily, up to eight units can be held in the "Hall of Heroes." You can then give them immediate assignments in the next seemanio or save them for use later down the line. On this screen you can even rename the unit from its bland unit. designation to something much more sentimental, WAKWIND III wunts was to love your troops Hig the little neo-RPC heroes they are The powerful vehicles don't qualify

for the Hall of Heroes, but they do play a base role in WatAVIND II. They serve as unit transports and provide protection. for the units they comy Finally a disabled whicle can be salvosed and repaired by a unit of the same faction. who possesses the Repair sleft

Odds: the Descendant robot worker and the Overlord chaingun mech aren't considered vehicles and can be placed in the Hall of Heroes like other units. They can even be bested the their fleshy counterports Of WARWIND IIIs anomalies by far the most armsing is that animal units such as the doz or elephantine boncs, can be made to offer vehicles Tactically its useful, since animals are senerally weak in melee and

their unconey manumailtan piloting skills free up more effective boons for the fray. I suppose it's less eruel than using Bouca to draw energy free or clear mine fields Less amusine were boas in saving and mission goals. In the Descendant campaign.

nov aggressive troops killed a powerful enemy Hero on sight 1 later learned that to truly complete the scenario. I was supposed to talk to this Heso (while she

shot at my troops), then, politcly, leff her. More annoying still was that at times I lost troops while I saved at the Hall of Herres serven The default Al tso't nearly challeng-

ing enough, as it doesn't take full advantage of its troops' capabilities. Only on higher difficulty settings does the AI. become adequate. But the variation in troops and structures promises a fantastic multipleyer game. In the computers, the cinematics between segnation or decent, but don't expect any ound theater at the game's end. However, because compaign paths diverse based on quest choices, campaigns may be repeated several times. If that's not enough, WARWIND II also includes a scenario editor for incremed replayability. As a scored, some might consider the look and sameplay too sintilar to the original. But on its own, WARWIND II still delivers a solid, engrossing expenence. While it doesn't have that special quality to make it a classic, it's a good and distinguished addition to the real-

APPEAL: Fars of the first game, or those looking for a pseudofantasy real-time game in this year's hardcore soi-fi crowd

PROS: Four different sides; coal wWwe heldovers like Hero units and various neutral critters; good

ense of combined arms. CONS: Some on ever the ente knight

time Hurry &







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# **Ancient Waterloo**

This GREAT BATTLE Gets Routed by a Slow, Buggy Engine

by Ron Talbot BE CREAT BATTLES OF HANNBAL, His its predecessor THE CREAT BATTLES OF ALEXANDER, is a poetty faithful recreation of the turnbased paper warroome -right down to the beyond. HANNING Is a wellresearched singulation of the Second Punic War, in which you do your best to outwit, outmaneuyer and outfast the Roman military systern - a task at which even Hannibal ultimately failed.

To its credit, HANNIAL tries to be much more than a symplistic crash-andboth affair As in ALEX, combet units are rated for movement, melee, missale, amament type, and even - unique among ancient-warfare simulations troop quality

## SON OF ALEX

Based on his historical performance, a leader may inue orders to bis units each turn within his command radius; he may also attempt to mily mosted units. Since the only way a unit may move or attack is to receive an order, leadership is aff-Important. The Corthogenians have the best leaders, which makes Hannibal's forces more interesting to play The combat system is sophisticated,

takine into account such subfictive as

shock superiority of various unit types Bather than fighting to the last man, the units analysis cally are moted when they fall too low in troop quality. In a departure from ALEX, units may now move and fore. making fast missle units truch more effective. A new undo move command reduces the frustration caused by an errort mouse click. The Romans may employ Manapolar Line Extension, a specal maneuver that takes the Legions out of a cheelerhoord nattern into a solid line in a shorle command. These features are accessed theoreth buttons on a monu ber

The maps are improved over those of ALEX, and the historical detail of each



E FACTORY Animals are definitely harmed in the making of this historical epic, wife many overly sanitized games.

until annor and equipment is a delight to comine at full yourn, Unfortunately, the overall effect looks dated and very flat. Handonat also non-faster then At Dr. bee. movement and combut animation is agontengly slow on anything short of a

Proturn II notes

Some automated features of HANNEAL may inflate more than they help you. For example, whenever your missile units run out of mumo, they will officered to resupply within the command radios of their leader. This uses the units cutive turn to wome, allowing no movement or combat. Both the Carthuriours and the Romans (to a leaser extent) have strong melor units that also have missile. carehitty Problem is units will often force in special positions to calculy ross out the amono while half the enemy array slows into thrir flook.

#### CANNAE REVISITEO? Among the Court Generals of history

Hamiltal is nowhere near as familiar to the average gamer as Napoleon, Lee, or Alexander, and both Endite and I-Marie deserve credit for honoine his eric battles to the computer. The enine system does a good job of showing the differences between the flexible Roman Legion and the Carthurnian Phalanx.

You must master the combined arms tac-

ties pronected by Harmabal if you are to conquer Rome. However, as an overall experience, HANNEAU does the great leader a disservice because to memoraspects of the

game simply aren't furshed. The unmaginative campage game does little more then string battles together in historical order The slow some engine takes much of the fun from multipley, and the numher of crashes and lockons are unforetyable in the second iteration of a series Period corbusious will find historical insight and some challenges, but be warned that in many ways, HANNARA. marks a step back from ALEX. I hope that Earth and I-Maste will fix these problema by the time KILRIS CARSAR ships %

PAPPEAL: For ancient warfare fans who've already played Auctorea. PROS: Detailed, historical erre system; elephants vs. Roman us; nice autosave feature;

ninor Improvements over Aucc. CONS: Campaign is too linear: slow game engine; tinny nusic; crashes and lockups; doesn't







Windows 95, 16MB RAM. 130MB hard-drive snace SVSA graphics, 2x CO-ROM 68x or better strongly moommended), mouse, supports Wa 95-compatible sound cards 30 Support: None Multiplayer Support: Modern, IPX, LAN 62-6 players). 1 CD oer ofaver Designer: Erudte Software **Drieinal Boardgame** Design: Mark Herman and Publisher: Interactive Magic /8003 789-1534 www.imagicpames.com

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seem finished.



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# **Long in the Tooth**

The Grand Old Cat Is Still Realistic, but Very DOS-dated

by Jim Cobb

sec so many sounds because. ouite simply, a good thing is hard to leave behind. In this case, Gary Griesby and SSI have prodeced accurate and enjoyable similations of WWIII

annor action in STEEL PANTINES and of post-1945 actions in STITE. PAYDERS II The question is whether the bitest entry in the series. See Et. Programmes III. BROCADE COMMON really is an enhancement or just one lost kick at a cash row?

SEVEN DECADES OF WARFARE

STOLE III tries hard to movide everything that made the first two agmes populse The meerface will be easily assumilated by \$1542, vetering (though it) still not as elegant as Ponzen General's) STEEL III is certainly commercionsive, as it covers a wide range of conflicts, from 1939 to the near future. Every nation with scrous anned forces is represented with an adequate table of organisation and equipment, and you can choose from more than 40 different scenarios and six campaigns covering all theaters

of war. The companyes offer chances for getting more troops, upgrading equipment, and improving toop and leader quality-provided you do well in the linked buttles. If there aren't encoch but, thes to suit your fancy, you can create

MICE OWN WITH STEED, III's editor You've seen these mechanics before: turn-based, with opportunity fire possible in the opponents turn. As you would expect from a modern tactical game, facing and hise-of-sight are erucial to effective fire. Fog-of-War is used well, and it often causes bloom fire fights when fire

Protects Group from one wast tors on probably and hiddea enemy units start a chem martion browl, then down in other friendly units Sucrovale, CA As in other Grissley names, units are (800) 601-7529 www.ssignline.com extensively modeled for weapon wateress



DUSTRIN OF HISTORY STITL PAINERS III has some nice touches (such as this informational screen), but they don't quite make up for the creaky game engine

(melading arcuseration amounts and types) and defensive capolistics, with troop emility and morale also playing large roles. Combat offeets units' abilities when they are suppressed, pioned, or

souted, and leaders may attempt to assehouse negative results through rather If you call in artiflery or air support. It won't unive instantly, and may result in "friendly fire" losses, which are dealt with more realistically than to previous STEEL games. You attain victory by (typically) occupying objectives, achieving good kill ratios, or both.

BUT IS IT DIFFERENT?

Sixte. III differs from its randecessors primarily in two away scale and commend control. A bex is 200 yards, not 50. and units represent infustry companies (30-50 men) and vehicle platoons (2-4) vehicles) instead of platoons (90-25 men) and individual vehicles. Where one highly shot could take out a Tiger in an earlier Street, game, a Tager section in Street. III requires prolonged parameling. Infantry is now to other. Armor takes the role of o sharp instrument for skishing advances, not also instrument. Thus, to do well in Street. III. you must employ real

combined arms factics - with a particular

rehance on artiflery properation and are

reconneissance. Command control-points are used to change a units stance (defend/advance)

or objective, or to request judgect five. Each leader has a number of points egamakat to his rank. Prints can be gained each turn if the leader is in contact with his superior headquarters. Dependence on chains of command force you to refeate from break-neck charges There is certainly enough going on in STIEL III to make it more than an addon. Still one has to wonder why SSI is osenfully using a 1995 DOS engine for the third installment to one of its flagship series Diedard of rivarion of modern worfare will find plenty of realism here

Others should be woused that Street, III is not anywhere neve the definitive manamine statements made by Stron, Ler II % PAPPEAL: Primarily for band-core

20th-century wargame fans. EPROS: Solid tactical model; new scale; con mand control. FCOMS: Aging graphics.





Prices 544.00 System Requirements: 486/66, DOS 6.22, 16MB RAM, 16MB hard-drive space, 1MB SVGA graphics card. mouse; supports Sound Blaster-com-

petible sound cards 3D Support: None Multiplayer Support: Email (2 players) Designers: Gara Gnasty, Keith Brors, and the SSI Special Publisher: SSI (a. Mindscape Company

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battlefield feel\_axcellent sound and

"...melds real-time action, strategic depth, and historical veracity into one terrific experience." PC GAMER

Editor's Choice



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# **Set Phasers on** Don't Expect Too Much From This Simple Farce of Gun-Toting Action

by Martin E. Cirulis

gynnew ones back to the ancient days of computer atming when ASCII characters doubled as aranhies and programs were stored on sucho tape. Basically, each player had a cannon to fire at opponents. After inputting the angle and power of your barrel, you would see the hitle asterisk that was your

shell are across the screen and either blow up your opponents gan or chew up the landscape. It wasn't DONNY KONG, but it was fast, new to reneworn, and one of the few multiplover names available. As times and technology have

changed. ROCLE has become DIVILO. Sescreparhus evolved into Wing COMMANDER and ARTILLERY has became, well., WORAM More precisely. the new and inoproved WORMS 2. brought to you by the efforts of Micro-Prose and Team I7.



predecessor, WORMS 2 is a cross between the mechanics of Astriusian and the humor of LEMMINGS. Instead of cold, beartless howitzers, you commend a group of prachopathic worms with access to a truly bizame and terrifying arsenal of weapons. In book game terms, this means that your artiflery piece now looks and sounds a whole let cuter and can native amound before shooting.

While some of the weapon effects are funky and cristical first try to restore a sport as you lob a boly hand excuade or send a killer sheep to do its deadly business), there is no escaping the fact this is an ancient computer game tweaked to the oth degree A nice twist, though, is that instead of commanding just a single carmon, you run an entire team of



SEA YAI You'll have a wide range of weapons (from basockus to air strikes to baseball bets) at your disposal to sink your enemy's worms.

of lobbing and dropping the various weapons is quite well done. However, some players, especially famu of the other AKTRUJEN descendent, Scorczetto EARTH will be assessed by the fact that terrain is improve to the effects of envity. Blowup a diffu foundation and you'll still see portions of a suspended in midsir.

Wosses 2 does a mood job of wording off repetition by offering dozens of new weepons and enough multy terrain types It also contains a set of user tools for faldirar with almost every aspect of the game. Using the crude-looking, but effective, editor, you can adjust every weapon's characteristics and availability. The same goes for the actual rules of any given bottle. Even the seconds your worms make as they shoat or moso after

an attack can be preselected AT WHAT PRICE... A MUSEMENT? Unfortunately, for all the style and cornerly to be found in this game, it is still pretty basic. Despite some excellent primation in the intro there is a lack of

polish to the explorer and interface that may leave some players disappointed. If you want to get your money's worth, you had better love AKTILLERY and twisted humor an awful let. Otherwise, thus one could get awfully thin gwfully fast. On the other hand, in a world whose computer games get more complex and pretentions every day. Worses 2 offers a fun top back to a time when gaming could be enjoyed over a coffee break. %

PAPPEAL: Garrers looking for fast. simple action and twisted humos >PROS: Very funny game that takes ARTHURNY as far as it can go; tons of gameplay options at the user's

uickly lead to s immune to lack polish.





System 95. 16MB RAM. 2x CD-ROM drive, 1MB video card, supports undBlaster-compatible sound cards. 30 Support: None Aultiplayer Support: Modern (2 players) LAN, Internet (2-8) players). Hotseat

(2-18 players); 1 CD per computer Designer: Team 17 shlisher: MicroProse (510) 522-1164



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A Pair of Casino Games You Can Bet On





IT HE AGAIN Hous Casso (left) is stoker; Boy me House 2 is more realistic—both ofter a pretty good game of black(ack CASINO the feel of being located in a

by Barry Brenesal his season's crop of easing games will hardly bonksoli you to Vozas, but they can belovou develop the skills needed to increase your chances of success Sterrals HOYLE CASINO features basically the same crop of computer 'personalities' as the cost of the Home serves. The usual Sterm polish extends this firme around to include paintings and ancient Greek sculpture, which gives HOYLE

TIAL: Electronic comblers coking for a slick presentation.

THE HOU EAL: Those who wast thenticity in their computer

second-rate art museum Interplay's Brown str. House 2, on the other hand, emphasizes substance over style. At times, it pushes this approach a bit too far, as shown in the numbingly bland (if appropriate) cocktail pamo sounds Visually, BEATTHE HOUSE 2 locks the crisp atmosphere of HORE CASNO, but neither grene adjusts to higher resolutions, so arrething other than 640x480 means a less three-full screen

Both nackages reclude Blackwok Crans Roulette, Poker and Slots Homas tries to sweeten the deal by adding Hoyle Finday Night Philips but BESTTIRE HOUSE 2 adds Video Poker, May Baccarat and Poker Challenge, which fit more properly in the essing context

CARD COUNTING BEATTHE HOUSE 2 offers a coaching

feature that lets you get a suggested next move in any same. Yet its game outrons are relatively slim, as opposed to HOYLE's, which are highly configurable. Hoyle Blackisck, for example, lets you choose casino-specific rules such as Viseas Strip or Drawntown Vissa, and gives you the options of insurance, surrender, resolitions aces, dealer hits on a soft 17, and even choosing the number of points to double down after solitime

The best thing about HOUSE is its thorough, intelligently written documentation by Avery Cordova, noted gambling authority HOTLE CASINO Inclus

sunfor documentation, and a paperbook book by Steward Wolpin on poker is a poor substitute, since most of the games it discusses can't be played in Horn.E.

If you're interested in slick graphics and configuration, you could do wone then HOME CASING, another solid entry on Sternik How E lineaux, But Boot must HOUSE 2 supplies more authentic costno-style games and instruction for the senous player. In either case, it's hard to lose, since you awaid the nothellted. cigar-smoking, fiftyish crowd. Who says computer games don't take the moral tone of Me in ecocoal? &



Price: \$29.95

System Reen

486/66, 8MB RAM, SVGA

Multiplayer Sup

players), 1 CD per player

graphics, 2x CO-ROM

Internet via SIGS (2-8)

Siecra On-Line, Inc.

38 Support: None



Price: 544.95 term 90, 8M8 RAM, SVGA graphics, Support: None tiglaver Support: Hoteast (2-4 players) Publisher: Interplay

Productions, Inc. www.interplax.com CLASSICS & PUZZLES

Price: \$65 SRP/

90. Windows 95

16MB BAM, 50MB

30 Support: None

Multiplayer Support:

Modern, TCP/IP, IPX,

1-6 players).

Beverly, MA

ice: \$39.95

System

Wm 95

16MB RAM

compatible

sound cards

40MB hard-drive

space, 2x CD-ROM: supports Windows-

(B00) 400-1352

1 CD per player

Developer: Artech

Microsoft Gaming Zone

Publisher: Hashro Interactive

www.hasbrointeractive.com

\$44 street System

# he Dark Side

estwood Studios set the compoter Monopoly standard two years ago with a rocksolid, utterly simple-to-use game that was gamished with charming aritmations. Yet, in its zeal to computerize the popular Star Ways Monopoly board greece, Hashro

\* \* REVIEW • STAR WARS MONOPOLY

seems to have forgotton the freshness

PLANETARY PARADOSE The Imperial Palace in Conseast is the Reactwalk of this Monroov.

and sense of fun that made PC MONOPOLY such a lift

You can choose one of eight characters to play and then challenge up to five other human or computer opponents, or a combination of the two. The charactens are an odd mastere of Imperial and Rebel persuasions, so you get to play a stormmooper, but not Yoda. You may opt to play by the standard or short game rules, or select any of the

common "family" rules, such a colketting cash on Five Parking. C-3PO (with voice supplied by original actor Authory Daniels) acts as a master of ceremonies and banker, aunometing each move and making general comments at every opportunity. Thunkfully he

can be turned off Correplay is just tike that of, well. Mesoporary with the addition of Sav Wasmovic clips and artimotion A decid conducts moneton

Shaneho for Kick in terrific way for chil-

deen to learn the classic game white

un tifes on a commound board), and

using their knowledge of mathematics

and the alphabet). Pandagoonam (seu

succ against up to four players to match.

Dynasty (you battle opponents on your

Mah-Janez All the pances offer different

tile sets, loyouts, and snappy analtimedia

clips, and are certain to amuse smele-

menhonelli Sussensu Decayry olan

offers a very user friendly version of

transactions the Emperor Patentine zans the dice to roll

ects in the way. &

HOOMS: Sto

crashes and lock-ups.

Wars clips and

them. All of this demands a lot from your computer The contrast between playing on a PB3 and a PH/900 is significant enough for it to seem like two different games, but even on the powerful muchine ermeplay sometimes slows to a crawl Worse, the name suffers frequent lock-ups and crashes. Hs still Moscopole but sadly, all the cool Stay Wars ness test

PAPPEAL: These who must have every Star Wars collectible. PROS: It's still M Ways clips and

REVIEW . SHANGHAL DVNASTV

Shanghai Surprise by Charlotte Panther

HANGI M DYNASTY is the latest in Activision's mostly successful conversions of the classic tile grane Shapehai For serious fores of both Shapeher and Mahalonee SHANCHU Denayor warrants further investigation. Be prepared, though, for a few surprises - not all of them oleasant.



PING & PONG It's fine solo, but

poorly-designed exercise in frustration.

When I challenged some of my pals to play over the Net, however, the game fell. spart The very nature of turn-based classie games like Mab-Jongg makes them perfect for chatting between turns, yet the developers included no chat feature during play! Wrose, the "new" feature in multipluser Mah-Jongg causes each

considerably; and this Tenture can't be tosseled off. In perceal, multiplayer play of all the games is sloggish - the exact ecocoite

of real Mah-Jouggor Shavashai For those who merely want to wage their skills against the computer. SHANGHAY DYNASTY offers a ruce collection of tile pumes. Those looking for

competition from mul-life opponents are advised to stick to the tableton version S PAPPEAL: Patient fanc of classic

PROS: Single and colorful: good

3D Support: Norm Multiplayer Support: LAN, internet (1-4 niswers) nodem, horseat (1-2 players), 1 CD per player. Publisher: Activision Los Anneles O 0900 477-3850 www.activision.com

LASSICS & PUZZLES

nuftiplayer Skywarus Dravisty is a

APRIL 1998

player to confirm that they can't use each descarded tile, which slows down play

chat during play.

tile game

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# **GAMER'S EDGE**

Your Source for Ruthless Strategies, Tips, Cheats, and Hacks

STRATEGY & TIPS

# Sid Meier's Gettysburg!

Rally 'Round the Flag With These Tactical Tips

by Marc Dultz

or of the principle attention.

Still Merry hele became such an ascendid prince designer in became the being the individual editories of the principle and p

carobifity of tightly last linear tactics. The



. , , , ,	
Movement	Rates
Infantry in Line	Basic
Infantry in Column	2x Basic
Skirmishers	1 Total Basis
Infantry on Read	3x Basic
Mounted Cavalry	4x Blüt
Limbered Artillery	4x Basso
Commander	4x Basin
<b>Retreating Unit</b>	2¢ Basic
Charging Unit	21 BISL
Double-time	2x Basis
Oblique Movement	26 of Baser
Forest	1/2 of Basic*
Marsh	1/2 of Basich 1

following is a short examination of some of the fundamental military concepts of the time and the ways in which CETISSEURGE

## Forward, March!

If trains wears's northole, to ops were green by force do made sood nurches on foot to reach the belth site Cornestly, division commanders upted to deploy their bugdes in columns, one regiment following another, miking best too of what few made out through the countrystake and limbad the towns together. Only when to state seemed imminent del commanders researed these orders and to-deploy their troops off-road and trit transverse columns. When the enemy came into view, the troops were again re-deployed, this time into bottle formation, placing each regiment line aboract of one another. Regiments were evenly spaced by several yards to allow their commanders easy access to the front airils, which remittles defined to reverse in

which to window.

Units more moch faster by mod than they do cross-country, even when units form up into monoseer columns. Furthermore, units abunding in monoseer columns name twice as fee as units deployed in buttle formations therefore, they can readily each models spots or exploit precipitations in the cerumy limit. Lumbord artiflety trached as swiftly as

## GAMER'S EDGE

mounted cavalry, and serves as an excellent mobile ruserve, able to shift position and fire to support front-line troops as needed.

Battle Lines Are Drawn Once the two sides

Terrain Modifiers met, each army attempted to seize the Orchard 3/4 of Basic local high ground while deploying the remainder of its forces in broken or covered

ment and reduction of enemy fnc effects Skirmishers were thrown out ahead of the main body and were ordered to stine at the

enemy as they advanced in mancu Target's Location | Tire Educations 2/3 of Basic

ver columns Suread ant to cover more territo, skirmishers were typically employed to delay the enemy for as

long as possible, and f possible throw them into a state of confinsion well before the attack got under way Although skinnishers were

FLANK STEAK Each Confederate attempt to outlank the Union is bloodly repulsed

harder to eliminate, they were much more bettile in combat, and touded to fice if debbcrately charged



battle formation, the trailing reserve brigades are kept in naneuver columns to permit swift and flootile response

LINE-OF-SIGHT The grayed-out regions here signify areas in which this

## Horse Soldiers avalry was generally viewed as the best

means of acquiring fresh intelligence regarding the whereabouts and proximity of the enemy's forces. Not only could mounted troops prosids flanking protestion and rearguard actions intended to delay the enemy's advance, they could also expeditiously reconneiter the countryside and just as quickly report back with their findings. Unfortunately, at the battle of Gettysburg, cayalry was generally in short supply for both sides. The alssance role was left up to the infantry the early confusion on the meming of July 2).

Cavalry 400 yards 400 vards 200 yards

In littu of cavatry, comas the next best way of gathering

Robel officer has an obstructed view of the countryside, blocked in some instances by rolling lists, times, and buildings

and letter on hilltops. Since each man square in rsputo! measures colmatoly 80 yards able to observe up to 10 squares distant. Cavalry and skirmishers can see half as far as comman-

cen requir emblectes

dees; while infantry, eved either in column or in line formation, can view only two-and-a-half

STAND TO: A veteran Union brigade waits while its division commander scouts ahead for signs of trouble

## **GAMER'S EDGE**

## Digging In

oth sides deployed their armies into linear formistions, which includes the greatest sustained volume and concentration of fire-power and offered the most flexible means of response. Those units not already drawn into the conflict would us the time to entrend, encoring definitions out of talent limits, nearly motions out of talent limits, nearly motion.

## or anything else available to them. Formation Modifiers

Moderate 3/4 of Basic

Meanwhile, artiliery would be hurnedly dispatched and placed atop hills.

or slong brands sloges to growide long mange supporting for Canitate was used at shorter ampas whether so much shot wave connective used at shorter ampas white round shot wave connective used at shorter ampas white sound shot some promotions still arroyal in columns. In Girrystand, artiflery can conceivably till as it as a communication of the communication of the shorter shorters are so, making for a particularly stally commission, supporting if they can be should departed along highest terrain.

Firing Ranges
To the Line Broad tipe
Infantry 150 yards 100 yards
Napoteon Artillery 800 yards 200 yards



Imprisional Skirmishing Infantry 1/2 of Basic Skirmishing Covalry 1/3 of Basic Column formation 5x Basic

After the initial engagament, both nales with an actifice-centers to the control area, which indeed in the rest place of limite. Usually the straight and size of the hartferful apply escalared, and the sale possessing more material and manapower was better able to lengthen the faces and attempts to turn the enemy's flank. Once the flank was turned, if was relatively easy to soll flank was turned, if was relatively easy to soll

up the remaining enemy troops and create have in the enemy's rear goard.

## Charge!

Eventually, both sides committed the bulk of their freces to buttle, attempting to

bring their gens to bear on the weakest portion of the enemy kine. Infantry units closed to within 150 yards of the enemy first under two sources, unleadings one or two volous fire before switching to independent fire. Depending upon the circumstance, many commanders would order their troops to advance again in an effort to improve their firing accuracy and test the enema's resides.

## Infantry in Combat

Effective Range Basic
Maximum Range 1/2 of Basic
1/2 Effective Range 1 1/2 Rasic
At Lower Elevation 3/4 of Basic

As the battle internation and man begins in to account to memp fee, the determination on accounts on the manning the manning the manning the manning the manning the manning the contracting t

an other sector. Immediately order these units in fall back and regroup, if necessary, recall regiments on either side of the bottered unit to bely bodier its morale and tower its stress received. Morarshift beep surveying the buttle field, taking note of any units that have unpercited fitting or an being fired upon from multiple directions. When were to percolaminate of the percolaminate directions which were to percolaminate directions.

## cally use the wheel command, seedening Effects of Stress

2 Stress Blocks 1/2 of Basic 4 Stress Blocks 2/3 of Basic

hard-bit units to face in the direction containing the greatest peril. Conversely, keep a watchful eye on the enemy's eigmental flags, and order your own units to charge these positions.

Union forces retained a decisive edge in both morpower and national during the course of the war. The Confederacy courced with more astate and highly morbited commission—more better able to insure



and to an overlooking hilltop



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the PGL's first season, and advanced to the aMT Volition Championships of the AMD PGL!

If you've ever thought to younnell, "geer, there's no very I can compete with these players sporting cable moderns, ISDN and evan Ts times to their froms. All The get is this driny still modern" you've got a list to teem. Wes Cuiver, batter known online as "frick," has one of the sacce modest systems with which to competes a zoomby CPU and a 28.8 (U.S. Robotics) modern. That earlt stopped him from becoming one of the most feared players in the

PGL's Quelce division "I come from a home environment with a lot of built-in competition, with one older brother and one younger, so being flerreity compatitive is in my nature," frick loughs. "My girlfriend, pecerbs, end friends are elways tolling me how competitive i ers, and I guess thet's one of the main reasons I like playing Quaka, and perticipating in a true

NAME: The Calmin Screen NAME file: RESIDES IN Counting, U.
BIRTHPLACE See José GA. Agos 10. GAMING EXPERIENCE: Some Signer A.
World Screen E. H. Till yiel of Colone, Garles. GAMA: Garden RITE LEVELS/MAPS: Dies. DMg, DMG, Lowly CONTROLLER Mouse and tomore ARCH-NEVESIS, Nov. ALSO PLATS: Hotran employ, CONNECTION: SEE CPU SPEED; SOCIAL TAXONTE SANNO: SEE VOI HOUSES, INTERESTS (2010). HI, Housing, Sectoriol.

Held LIVE at GameWorks<sup>rst</sup> in Seattle, all the highlights of the league's first-ever finals can be found at www.pgl.com. (Visit www.pgl.com for all the demos and RealVideo footagel)

Championships THINAS AT GAMENORKS

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As one of the world's premiar strategis

Conquer Red Alart, Deepfilse, a.k.a. David Magro, might represent the future of ma-cu-line garner. Equal parts Escationer and eccada-fund, Deepfilse educas his apprecents with the kind of studied opproach that will ultimetaly separate contenders from pretenders in the high-stakes arene of professionel on-line play Disciplined, studied, and settless. It's likely Decollor

will remels a fixture on the professional gaming circuit, He's elso the first to admit thet staying on top will be sectous work, "It used to be I had ora real erch-fivel," says DeepSius recaling the excitest days of Red Alert on TEN, "Now that the PGL has officiated so many great players compating just one guy, You really have to watch your back."

MAME Books Marrier SCRITN NAME: Despite RESIDES IN: Sections. How then SIRTHPLACE Photosia AGE :- GAMING EXPERIENCE and Aleca NAME OF THE PARTY ANCIENTALISM TO provide to be the control to the of these control to the of the control to the control to the other control to the control to t ALSO PLAYS: Group CONNECTION; Salt modes: OPU SPEED, side like:

ANORET SATING; Owher his good, the speed for entering on but the bullet.

HOBBES, NULRISTS: Webliede: HONORS/AWARDS: THE CONE TRAINING.

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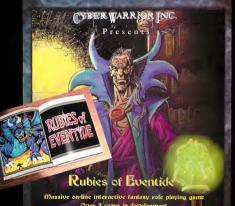












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and rufly their troops at the most entical winenurs of a bettle

At first plance, StD seems rather radimen-

Competent 66 yards 100 yards Experienced 100 yards 150 yards MULE'S CHIAMURO 133 yards 200 yards tory Yet, beneath its polished and intuitive veneer lies a remarkably sophisticated game engine

**Command Ranges** 

I Autor Tools fully Book Salv

that is exceedingly difficult to master once the basic building blocks have here not into place. It exes to show that at least one nuffitary maxim does contains a nance of truth: When in doubt, keep it simple, stoped &

### A House (and **Interface**) Divided



HOOD-WINKED General Hood inspects General Law's battlefield eperations. Heed balaters the resolve of the front-line troops with his superb command rating.

o wargaming, it's never an easy feat to keep one eye on the battlefield and the other perusing a multitude of units and their many individual attributes. Hevertheless, the product player will constantly evaluate the stature, disposition, and alignment of every formation under his command in order to maximize their collective combat effectiveness and achieve local superiority on the buttlefield.

Beyond various aural and graphical cues and animated Indicaters (entrenchment markers, fluttering regimental flags,

rates of fire, states of readiness, and the like), you should continuously examine every unif's morale bar to determine each unit's our rent condition, combat experience, morale level, deployment, and general ability to follow orders. Five separate characteristics are graphical ly depicted, any of which

may change each time the unit moves, shifts formation, or

1. Experience Each eagle Icon denotes a specific level of combat experience, ranging from "groon" (locaptrienced) men. to trained, veteran, and elite (a.k.a. "crack") treops. Note that green troops automatically start out with two icons, hence the extra eagle. Only battle-hardened units should be charged with carrying out sensitive duties.

2. Support Linear tactics mandate that each unit be properly supported by other friendly units-positioned on either shoulder or just to the rear—to prevent flanking attacks and dangerous defiliate fire. Try attacking, then reattaching, regiments in a brigade, and shuffle the regiments around, placing more reliable troops on the flanks.

3. Covered Terrain Obviously, units deployed in broken or obstructed torrain are more concealed than units deployed out in the open, and they enjoy some measure of protection from prey fire-especially enemy

artillery. Place your own artillery atop unobstructed hills while infantry rings the forward slopes to protect the position.

4. Entrenchment Units arrayed in open terrain are far more susceptible to enemy fire than units situated tohind walls, fences, or trees, So, if troops remain out of range of enemy fire, they will, on their own, begin to when entrenched units are ordered to

wheel and face in a new direction, they will still retain their original entrenchment value

5. Command Units deployed near a commander are less likely to boil under Intense and prolonged combat. Moreover, the presence of a gallant loader permits a regiment to charge an enemy position and, in most instances, hastens the return of routed, demoralized units.

STRATEGY & TIPS

## Close Combat: A Bridge Too Far

Practical Tactical Tank Tips and Anti-Tank Tactics

by Patrick C. Miller

enal Corrys S. Pillario core suls "Cord baticis can seve even the west stated," Bull autrice can rain com the best stated," In Class Corser, a Bassica "Cord perspective the sucretifical in gaining voleny, With custil and deployment and hospital pulsar to achieve mission electrics are upon a state of the contract stated or contract strates or contract strates or contract strates.

up for poor tactics

As the game's name implies, the simulated combat is at obsertings, they white matters must is how infrardual amount whether and infrare yet hos fire and munerater. Asingle testical error can be withly exploracial towards buffact strategy, while good tookies can sometimes subarge victory form certain action or reverse on apparently beperkes wherefere.



In CLUSE COMEC 2, armored vehicles often set as if they're dimen by vision-impaired drivers of students. Give a tank an order to move somewhere and chances are stwill find the most birtherous way to get



AMBUSH ROW A Bezoold scarn is deployed among hierarly infaminy on poted if from enemy throops. The three-level building the team occupies overlooks a lay road near an objective—a likely path for enemy tanks—and remains near end concentrate.



SQUEEZE PLAY After bilandering into a trap between two Alleid Shermans, not even this minity SS Jacobser can survive a point-blank shot in the fank.

there or become stack trying to go somewhere it shouldn't. This can result in a vehicle being destroyed for no good custon—a most feasto-time experience.

> The secret to manureuring moment whiches in to bulgout them. Award using the Move Fast command unless is white in its open mea. In close formum or tower, the Move command is better because whiches tend to follow more legacil quals and age tracked two offers. Another lays in to move whiches in about loop of a few inches set a time. The more confined the beman, the shortest few movement debases which lies.

By close attention to how and where the vehicle is moving, particularly is town, where this kernel to become stack, against hritting, in looks as fift the viciles is obiting into the corner of a building or trying in fit through a space thirst is no memory, immodistly have the beauty file during to our affect order and then place the innovament dut about an airly directly

behind the vehicle.

If that doesn't work and the vehicle becomes strick, cancel all movement earlies by wang a Defende command. Many traces, the AI will find a way to mancover the vehicle away from a structure and that a postfort from which it is can be moved.

#### ase Study One: HE or AP1

n the streets of Nijmegen, a Reitish Sherman armed with a 76mm gun emerges from around a street corner to engage a German Parther that has been mading Allied infantry. Because the Parther is stationary, it fires first and scores a hit on the Sherman. The British tank shrugs off the hit, stops, fires, and brows up

the Parither. What happened? Because the Panther had been firing at Infantry, it had a high explosive (HE) round loaded when the Shenman appeared. While an amored-election (AP) round from the German tank's 75mm gun could easily pierce the Sherman's armor, the HE round had oo effect. The Sherman had an AP round loaded, which could penetrate the Panther's armor. Thus, the superior German tank was destroyed by the inferior Alled tank.



#### Tank vs. Tank

Some planers make the mistake of assum ing that German tanks are superior to Allied tariks. While this was historically true, the distances at which buttles are fought in this same combined with the termin density of many mass reduce Centuri advantages in grannery and armor protection. In this setting, even the lowly Street light tank poses a significant threat to the deadly Purther - if it uses its

greed and mobility adventage to maneuver for a side or year shot Players using German armor should also note that turnet rotation speed is taken into account. Because American-built tanks used variable-speed electric turnet traverse, they could track moving targets better and bring their gans to bear more quields, providing the advantage of firms the crucial first shot in a quick-draw enswerment. American-

made tanks also had pun stabilisers fitted, which helped them for more accurately on the move. Another useful tactic is to deploy a tank in position with a good field of fire and eave it a Defend command, Many times, an Al-con-

trolled turk will spot and fire at tureets of opportunity more quickly than you can respond. This is especially true on mans such as Son South, where tricky line-of-stolet comes into pkry.

#### Infantry vs. Tanks

The Pargerfausts carried by individual German infantrymen and the availability of relatively mesperative Paracoschircek anti-tank teams gives the Axis a potent tank-killing combination. With these anti-tank weapons alone, it's possible for the Cerman infantry to withstand and repulse an Affied anmor assoult

With the Allies, the situation is much different. They gely mainly on PLATs and Bazookas to defeat Cennan armor These wespons have limited range (70 meters for the PIAE 90 moters for the Bosooka) and are effective against Parger Mark IV tanks and highter upper But against such opposition as Panthers and Tiggre, only shots from the side, row, or too stand a change of cursing damage. Therefore, the best position for a PIAT or Bassocias teorn is in a malti-level building where it can fire down into the tanks thin top

armor, virtually assuring a kill from any angle Once spotted by the enemy, PIAT and Bozooka teams attract fire form small arms hashe and mortans. Even if it pu't efficie nated the team well accure. so much sucoresson that it

will be locky to hit anything To avoid suppressive fire. leven the anti-tank team stationney and hidden until it has a good shot. If a team

must be moved to a better location, use the "Sneak" command to reduce its chances of being protted and fired upon The Al rushes annor support to spots

where its infantry is in trouble. Knowing this, the best tactic is to set up an ambush in tercan that forces tooks to close within effecthe Bezooka or PIAT range. By studying the terrain and anticipating the paths that enemy tanks are most blicky to follow, anti-tank terms can be in wait for energy vehicles. Besuce to provide infantry support to prevent. anti-tank teams from bring overnun by enemy infantry. %



German StuG III assault gun breaks through American lines at Schjinder, decine to collapse the defensive line. The German vehicle halts near a three-level building in which a .30-caliber machine gam team is hiding. The Gis pen fire and destroy the marauding energy vehicle. What happened Hermally, expecting a maching gun team to take out a fully enclosed armored taret such as a tank or assault que la pointiese. However, most machine gunsan and Allied allies-possess a limited degree of armor-penetrating capability that can be useful against lightly armored targets such as half-tracks. In this case, e the machine gun was firing from above at point-blank range, it was able to rate the vehicle's much thinner too armes.

#### GAMER'S EDGE

STRATEGY & TIPS

# **Longbow 2**

Part 2: Managing the Strategic Campaign

by Tom "KC" Basham

of machine and on the fire accept for all the formation for the content of the co



It may be an old clebel, but it could be the single most important lessex of all. Use the right tool for the night job. What does that mean country? First, it means earthring the monautient to the traget type, which hold shows too matter of behave. On the cond hand, make were



THE RIGHT TOOLS Aftering helicopter and armsment types within a single flight offers maximum flootbilly.



MISSION CRITICAL Although the computer will penerate missions for you, you'll do better if you use Lovanov 2's excellent mission planner to manage your resources

targets. Do you really want to fire several million dollars' worth of missiles at a truck that cost the "People's Democratic Republic of

Wherever' a few thousand dollars to build? Depending on the trackleage, the amove may be yes, but more thicky fit in a. Second, using the fight tool also applies to the type of are fit used and even the crew assigned (if the visualistics identifies pilot skill keeks, as does PACCOR 30). Does the nativous really require two AFI-6-FDs bettermines the tomelow material and enter-model. Before over the 1.

inter-compact Apachs were equally well? Meccover, can a UH-60 or an OH-58 suffice? Using Blochlands and Browns for "light" sorbes faces your "big grant for the more demanding assignments. Hypically start by assessing the frequence cocked to neutralize the baget for the siddor. "Moston Kill", then I estimate the coccurs'

#### Miv and Match

crossity, I save Baddhanks for the "Nattest" combox ourtee.

Short the UH-50 is the only interpret at your disposed copation of entirely recogn fit is retained to red than it on the fit year of meabows. A pair of Bendhands amend with modes words well against not target it ill infurity and unamond withdess.

Use the Kowne aggressively. Although they don't carry much ammunitation (compared to an AH-50), they do pack a depart. When the unexplosed features no broad, the OH-50 can be pround. With they lare-provider features no broad, the OH-50 can

do serious damage to ... convoy, a fank (fatour, or ...ven a hardmed burker. The Klowe can't absorb as much damage as an Apache, though. If the area is heavily defended, consider send-

ing Apothes Instead.

Also, by milengs Longhour and non-Longhour Apaches in a single flight. This seems to be a particularly affective persons. The Longhour can eliminate the SAMs and AAA by using the satisfactions are insurfaced, the Apache can move is and enpage the emaining targots using lower-guided Helfits. defensive capabilities Next, I look for an arough that can carry the necessary ordrence and survive the estimated return fire. Overall, these decisions are highly subjective and are based mostly on experience Review the available intelligence, then listen to your out. The more missions you nion, the mose you'll learn.

Being an engineer. I've found simple mothematics beloful with mission planrung While you'll undoubtedly want to develop your own system. Leften apply remerical volces to individual weapons, based on range and farepower I also assign point values to individual targets. This belos me assess priorities against my capabilities. In some cases, if one particular target greatly out-volues another I may even pull my forces and concentrate only on the high-value target (although I'm sure my superior officers would

#### not be pleased). Timing Is Everything

Once you've allocated your forces, you then most decide how to get them to the target and back. Timing is erucial, especially if you send moltisle flights against a single toract. Realworld. Apache pilots have told me that they're expected to much each waypoint within 30 seconds of the assumed time. Fortunately: LONGBOW 2's resistion planning interface lets. you manisulate the Time On Turret (TOT). the time at which a given belieopter should reach its target. In the planning interface, rightclicking on any oxypoint displays statistics about that way point



#### PRACTICE MAKES PERFECT Use the quick mison cenerator to practice mission planning.

Toward the bottom of the information ben you'll see the time the behoopter is expected at that waypoint plus a "lotter" item. If you've having trouble coordinating the fining between flights, adjust the lotter values at vancus waypoints for the faster flights.

To test your timing, use LONGBOW 21: "rehease" feature. This walks through the mission at increased speed, displaying the positions of the various aircraft as time progresses. This substantially eases the task of coordinating multiple averaft. A simple typo when entering an aircreed value can rain even the best conbut plan. By using the rehease feature you can cutchly identify and correct such errors

LONGROW 2 has a very comprehensive mission planning interface. It gives you a lot of cestions, but it also forces you to make some hand decisions. Since no real lives are at stake, don't be afraid to experiment. Always evaluate the results of each musion, executely missions that don't work. These puidelines will get you

started, but, in the long run, there is no substitute for experience &



orked. As an extension of that conept. It's not always necessary to lly destroy the enemy target. fering that the target has some tive of its own, simply prevent ng It from achieving that goal may oe good enough. For example, a ber forced to drop its payload an veturn to base before attacking friendly forces would be a miss kill. Although you didn't manage to shoot it down you did prevent it from hooting any of your allies.

Obviously, it's better to actually troy the bomber than to let it oo. Otherwise, It'll make another of against you tomorrow or the rext day. Still, you kept your ailles live today. Perhaps tonight they'll opture the bomber's base!

iversely, you must guard agalast becoming a mission kill. En route to our target you'll likely encounter rous other targets of oppo you may survive the mission but you re Ineffective. You just became a





STRATEGY & TIPS

# The Curse of Monkey Island

Ahoy! Here Be the Map That No Would-be Pirate Should Be Without

#### by Thierry Nguyen

[I bearing the exheres of a and demon parts while a citize three-lasted incologistion engined. We, with the He of our integral Cophends Theorymood. These are a great many passed in those me to adopt Cophends queed, but to est face, the core here at COPH/GROBEAU CARRON [Wind] with all the core here at COPH/GROBEAU CARRON [Wind] are only to lebey our with some of the total per passed in CORRO (MASSEA) 144-00. I CORRON (100) beautiful parts warmabes play on "Named", "we write tablistic ploud the May Modelly wittenshow.



So, Palido Domengo won't book you a trip to Blood Island, Inth't He millet you look at the map on his basek, provided that he has a tim. The on'typedien is that his poler than blooding drafts, so you've going to

lone is noted from ten other than jost leaving it up to the sam. Palido assures shirt you're a uter let ree princip his diet. Before you perform annul a waterly task you should recell whose the provise een a men. Jike care of their diffic and not in good before those Tracely you're performed a statum tur, and worth than turn over. Whele you provide your receptions with this lack, pay with the calcular lety Cell for a territory or with his name of the calcular lety Cell by point we were greater with his name for which the mineral than 10 feet on the world in too. And they not will be mineral that mineral the mineral when the calcular lety calculate when the calculate of the calculate provides the calculate when the calculate the calculate when the calculate the calculate to a calculate to a calculate the calculate to a calculate the calculate t

#### I Really Am Your Grandfather!

No root to gir in the tray pit, yet promote in the part of the train bloom by no in the part of the train bloom by no in the training the training of the day that you it much to he in the part of th

of more minds after solving this puzzle.



#### PAIN IN THE... You should be an arroying lid to Dingly Dog.

the thearded printings was useless

Of course, a face and enough, you need to know your history. Assuming year've fulffled the Voodoo Prinstess' prophecy, you should nake a becline for the implements both more. Story, the close is flocked, but how did you get back into your cham back no your college days when you lost your keys? If you'n stack on keeping that bed down,

commober how the painting earlier wasn't nailed down rightly.

And finally, when you're trying to collect on your policy, you'll need some proof. Go back to the hotel, grab some choose near the frides.

### and keep an eye out for a certificate Your Inner Child

Okay, you're a little tylu, and you need to clear your head again. You'll first want to play Dingby Dog's genne, and take advantage of the fact that you're a men in a boy's body. And don't forget to amony Dingby.

Dog, get physical white you're at it.

For the eggs, you need to become the clown, which requires you to knock down the current clown. A good substitute just peeds ensure in a

tin, with a bit of weight for that aided "comph" factor.
For pepper, the only place to look is at the local food stand. Once you've gathered the ingredients, just chug it all with some snow to weak.

Three of you who stack with it through those sticky points will be able to progress on in the game and thout LeChack for the last(!) time. And when you do, make some you have around after the excits, for as with all other LaccaArts' adventures, there is something extra at the except 5.

#### GAMER'S EDGE

STRATEGY & TIPS

# Quake II

#### You, Too, Can Dominate Quake II DeathMatch

by V. Long

toos II DeuthMades and Quora I DeuthMades had not clear to clear the control to term more new treels to demunte your adversaries in Quora II There is so much insteay to cleares, this gaste will be one top onto. In this wor, you'll beam weapon terring, not left improp, and PsychOps. Next much well explore more level-specific left pan all person level maps from all Quora III DeuthMarchpack.

Of course, we will still next all the indirectation leads the forestrate of the endorsested in control.

Occurs, yeal offered of the fundamentals in ear. Inside systems of the first solid or the fundamental in ear. Inside systems of the fundamental inside systems or the fundamental inside systems or the fundamental inside systems. In the fundamental inside systems of the fundamental inside systems in the fundament

Qxxxx II salch new features and, thus, new wenders. Among the final things that players notice is the ability to council. While council while considering in other required to section to highly both to extend we considering pooles, if it not an good for evailing attack as you might expect. It stooks down your rate of insorrement. Often you can samply jump over ashist, and jumping down than you good ashist, and jumping down than you good.

#### Weapons Training

Forget about the nayanyess who claim that crosshalrs are a crutch from what I've seen, crosshalrs are a big-holp, especially if you keep mousebook locked on Although they are not perfect, crosshaus gave you a good idea of where your shots will most bloby land.

Crossbans are most helpful when using the railgum to pick off victims at long range. The crossbans are of less use with nockets because solush duringer markes dead-on airm less important.

speared on large masses occurred masses represent Think, think, think Noberally, each warpon has shown unique set of advantages and disadvantages. As in the original QUART, you need to thank shead and ready the best warpon for the given inhanton QUART II takes it one step further by adding a delay for warpon



On THE OOT Crosshars are a help, but which is better—regular crosshairs, the leser-dot, or angle crosshairs? Use regular crosshairs They don't get lost in ferce file rights.

#### The Tool Box

tille I'm not generally a fan of using specialized equipment for games, il encourage anyone o wents to maximize his or her mousing pleasure to follow the advice I got from Dennis "Truesh" Fonce Get 3M's Precision Mousing Surface (www.3M.com). No, it won't make ou as good as the legendary Thresh, but it will vasily improve mouse tracking accuracy. It's a bit expensive for a "mousegad," but it's simply the best I've tried. No more of that dreaded rodent stutter or skipping that will get you killed in the heat of battle Unless you have an incredible set of speakers, you're better off with a pair of good headphones.

The environmental noises provide so much useful information. In Quive II, you need to use your eyes and your ears. Don't be alraid to use macros and config files. Almost all good players personalize the mouse and keyboard conflourations. It costs nothing, and can maximize your performance.

LIGHT UP MY LIFE Most of the westoons will give away your position with noise and light. Surprise ensuspecting victims by tossing hand grenades.

switching Furnishing for a better our in the meldle of a gardight will Niely get you fragged. This also means that you want to use a weapon with enough ammo to last through the fire-fight. If your favorite man is low on ammo, scriously consider using another one that's fully loaded.

For many places, the socket knowler is the favorite weapon. Direct hits are quite deadly, and near prisses still inflict solash damage. During melos, expert Death Matchers often do not aim electly at the victim. Jestead, they aim at the enemy's feet to exprendee that each shot harts Remember, if the rocket safe by completely, you've not only wasted a shot, but you've also given the target a shot at you

Another benefit to using explosives against others is that the blast socils their ability to return fire. Cetting knocked around can sure mess up your arm and scramble your brains. Explosives are also quite handy for testing sessicions dones and corners for ambushes. If you face someone who likes to cluck around a doorway or corner to turn the tables on purseems, strook fire a socket so that the blast

flushes the tricketer from the hiding spot. One of my first lells against the legendary Dennis "Thresh" Fong happeriod this way

Another important aspect Death Matches is the Outel Dansage power-up Quad Damage is an item that outschargies the changes your shots reflet Teorogy

> equate the Oard Damage with Involves/bility and set accordingly Although Onad Darrow cen make you more lethal, it does not offer extentroler

your appenents shoot back, you can still the If your opponent has the Quad Demare, you can still duke it out... just be careful to avoid getting bit, because it will hart a lot more

#### Catching Air Rocket-furnished has evolved from a bissene

novelty to a "most-have" move in the accomphilied DeathMatcher's reportore. The basic concept remains the same: Run forward, look down at your feet, jump, and then knoch a nocket directly into the around beneath you Because this move will fairt you, be sure to

load up on health and armer Ottsu: Il adds new wrinkles. You can no langer change direct to tion in med-flight. Plus,

being right- or left-handed will affect your trainetory. I profor to stick with center-handedness for trace firelat

Variations of the socket-jump include the grounde-invest (horszine cesto a live seenade) and the barrel-jump (shooting the explosive harrel beneath you). Extreme variations include the excrusio/speket-turns (meketromp in tradem with grenade jump) and barrel/rocket-turns (rocket-runs) combined with beard-iones





SHOOTS AND LACOURS instead of using the "down" or "orduch" key to descend a ledder, simply use "mouselook" to look down and then run down the ladder

Argenthly the hig dately of all jumps is the BFC-arms, reportedly frut perfected by id programmer John Cook. The BFG10K packs a wallon On the Outer Base (the very first OUWE II. level), a BFC-jump from the rocket buncher spot can fling you to the top of the brilding, so you can get a better view as the drop ships fly by Althorath a BFG-jump will hard you much farther than a rocket-turno, it also takes a bigger late out of your health. BFC-humps typically inflict over 100 names of danuage, so be sure to wear lots of armor

Then there is "lawa-skipping." According to designer Tim Willts, it's possible to use the more asalistic physics in Q11401 II to traverse law. Although I likely the sleft and luck required for Invaskipping, Willits says that you can hop atop grounde blasts to keep from sinking into lava. Again, you'll want plenty of health and armor to survive this antic

#### Parting Shots

Don't feet if these pointers and tactics don't feel comfort. able at this point. You will naturally incorporate many of them into your style of play as your skill and experience pros-In the end, there's only one real rule: Superior frepower may not bring happiness, but it sure helps!

For more DeathMatch tios, are pest month's strategy guide. We'll also mehade exclusive maps of the Death Match levels from it's uncoming OUAGE II DeathMatch maps. If you want map advantage and even more tips, you won't want to miss next month's installment S

#### Give 'Em the Bird

numerous skins for both ganders. Quiux II gives claves the ability to disture to each other. You can point eys, saute, trab your privates, and even fip someone h is tip the bird I'm ware u = point

#### **Playing With** Their Minds

chOos. That's the official military mumbo-jumbo term for using all sorts of nesty tricks to outwit your adversates. Many Quast taction carry mer well into Quive II. A dassic new tactic is to scare a sttery opponent by using a chain-gun to hose them down in a tight comdor

Always cover your ass. If you must retreat, by to run backwards so you can keep your guns on your pursuer. Toss cremades to dis-

Think twice before picking up weapons or items that you don't need. A clever player will nobbe missing goodles, and may be able to track you as if you left a trail of bread crumbs. Quivi II adds the ability to selecthely done items. This feature froms the basis for what Tim Wilds calls the "bat the sucker" ambush. Most players have an uncontrollable pack-rat habit of collecting any weapon or item in sight. Willts will drap one of his less powerful weapons (or a big one that's out of ammo), and then hide in a vantace point with his crosshairs trained on the ball. As soon as someone attempts to scoop it up, Willits rewards the sucker with a railgun slug to the nogan

lodged, Quive II adds new PsychQus possibildes to the DouthMatch cavidron To the veteran warror, noises reveal much

information. Indeed, the hard-core insist on wearing headphones to better identify and pinpoint tell-tale rouses. Slogging into and out of water alorts overvone within earthot as to exactly where you are and what you're doing While running makes you harder to hit in a

fire fight, running when there's no threat of attack is a bad idea. The din from your source ing feet can give away your location and direction of travel However, you can also use noise to fool others. When no one is in sight, sump once or

twice. When others hear the grunning but can't get a fix on your position, they may be confused into thirrising you're somewhere that requires lumping Similarly, take a ride on an elevator or lift.

Simply also on to activate it. then quickly stee off and hide somewhere to ambush the person who intended to ambush you.

You can also draw someone into an ambush by feigning lack of arrono. Switch to the feeble blaster, and fire enough shots at the target to convince him that your better owns are out of ammo. As the victim comes in for the MI. switch to something with clout and shoot. This tactic, of course, requires good timing, due to the delay in weapons switching



k = grab your crotch

STRATEGY & TIDE

# **Seven Kingdoms**

#### Some Quick Tips to Get Your Civilization Up and Running

mYN Receives as a ree gain move the downs of no-lines state; grams in the side part of copies. What specified which specified part from other greats and the diplomacy, cripriously, and ecromatic aspects of the gram, which gain beyond and thing done before in real-time strategy SNN IN NECODIST on the save specified parties and the grant strategy SNN IN NECODIST on the save specified parties in the side specified parties and distinguily. In it imply a quite desired. The side is more or mystle strategy in the control Wise of the side of the si

choice you'll make is in choosing which noc to play. The infini strategy I suggest is to spread out quickly and mak independent towns in the very beginning of the game. The powerful Vikings are perfect for this strategy.

#### Attacking Early

Early is the gasse, Inspires your town with the appropriate buildings (mice, father), match, but along our proper forces few our Celly man the your first as soon as possible. Once you have a going of eight men with 25 cecesling, you will be sumply. It woo on an the fast right chase sally frost if some your few unputs! It woo on an the fast right angaing? Deks a does, Indopendout village and leaf the change against it with your king. This early in the game, independent willage have low populations and only a does, poorly storated men in high against the

After that simile (conquest, don't be tup. Premote once or to workhart to the mike of general. Has cere size yt your newly-compared town, and send the client with your battle-luminous though to toke mobile middless mispendent from (Stondyour lengt back to your househow for sail if he gight to build yourself higgers this, processed after a few more independent downs. You must establish a foundation for a large conjunction of the size o

#### Town Loyalty

Copparing towns is the easy port; mainturning a newly-acquired village's loyalty is what's difficult. You can hattle Fifty tan laits to increase loyalty, but this is a dangerous incide;

> MONSTER NASH Betting Fiftylan lairs can increase your reputation and your empre's loyalty, but don't do it until you have enough troops to bettle waves of montalers.



WAR AND PEACE Build mines, Tactories, and markets to get your economy going, but also start training troops for early conquest

there is no easier method. Keaping a town busy will make it crore amoushile to your rule. Pind, build a connected for next to the town. This allows you to grant concept, keys towes, and dealt villagers for work. Pounching a same-realtionality general after the town's loyalty is reprised will also increase townite.

After the first half, give the people an interprincing quarter system or affect, much case their helpsylarders. 9 If the first of grants are such temporer, 'ii premisently near helpsylar, but have to pic the people that go to just a few to distill have the pic the people that go to just a few to distill have the pick of goods in they does senden to increase a tomis loghy. And, year building additional streeture, unch as was lacked on senerce become, when wellings us not work if the boson tower are one deposit, build a mise and a festiony. All true buildings you disease your reduceptor buildings also destinately.

#### Individual Loyalty Just as important as maintaining village loyalty is maintaining your

personnels by sity. Again, give them something to do not they will follow you if generals have toops to train in feet and lead into belife, then loysity will elimb lifest, it will fall unif you give them men to command. Likewing, if you have construction washers title, they will be less loyal. Also, bestow homes on your men.

I hope those tips will get you started on a successful game of SEMEN KINCOCAES. For more tips, see our guide at www.computergaming.com. §

### Simulations/Space



Emmy Montas are honey fighters, which means they can depfight and corry capital-altip-lifting torpectors. So, always target Mantas first in any mission—especially the Red Mantas, as they carry torpedoes.





display indicate which or entwenth are attacking

When making runs against the aban ceptal ships and them turnels, make since to take advantage of the new auto-alting feature. Pates shifting not only fively run maintain therethen medspeed, it also lets you keep your slights set unyour baget whife, going around it, rather them makine you attach bandson. "Them Nomeron.

#### Strategy/Wargames

#### GREAT BATTLES OF HANNIBAL

# United Barriers of Harmon

Don't use the missile capacity of your casalry You need its mobility and shock value to attackyour opponent's Banks. If you use your missiles, your covery will freque to seloud at the west possible time

As the Carthaginian, you won break up the Reman Lagan formation before they reli over your infanity Skrundsen are enterrolly important in this regard. Changing elipharia into the middle of a Lagion and attacking the second now of Rumans will often do the trick. A mussed model.

office on the Remen flam's works as well, but watch your con flam's

If all else fish, defend in-depth with a stuggered line, so that the Romans can't simultaneously being that the Romans counts in whole line You probably can't defeat the Legiens head to bead, so you have to entire power them.



Reman Legious have attack superiority against all editor informity (this is a significant advantage in the control results a calculation). Don't attack Legious cooper form the flank or next, and cheffer along and defined against Legions only when reast, and cheffer along and the first against Legions only when you have a ternatin advantage. Otherwise trade spaces for time if I you are the Remans, use Croop Attacks and clean appossible to maximize the impact of your legions.



Weltes are used as stirmushers by Rennan Al generals. However, they are classified as hight infrastry, which means that they count at full cost versus the army sent total. If you can sent or decision most of these troops—and do the sense to the weak Rennan cavolty—you will

be well on your way
to victory.

— Row
Tablest

### Action Toma Barres II

while a hard time pathing past the brighting of 40 Fathware? This is one of those puzzles that requires some fast thinking. We'll leave the rest of the leavel up to you, but here is how to get past the beginning:

I so soon as the level begins, turn around and south to the bottom, until you see

some debris on the floor
Follow this trail of debris to the wrecked

ship, and make sore to go for the open hold (where

open hold (where the back of the shap). He anchor is near the back of the shap). He do into the hold, and make your way to the surface to take a breather. Now take care of the shark that's been hounding you all this time and go exclore the rost of the level.

-Thierry Nauver

#### WARHAMMER AR ORD FINAL LIBERATION



B ombard Platoons are the way to go when there's a target you simply must take out-a mere two shots wasted the building shown above. Plus, when a building blows up. all intentry in that building go down with it



It's bad enough that Chimeras have poor armor But, what's worse, Chimeras' guns are so bad that their shots will ping off even Ork armor-while the Chimeras die in the return fire. Leave them at home.



Specifically, entrench whenever you can, especially since it costs nothing to unentrench when you are ready to move out. -Samuel Baker N

#### Sports

#### FRONT PAGE SPORTS FOOTBALL PRO '98

en after you've installed the new patch (trust me, you need it'), these are number of "features" to FPS '98 that you can take advantage of porticutuity when you're on defense.

Oddly enough, with the newer bell physics, it's ensier to kneck a pass down at the line of scrimmage than in FPS FOCURAL. '97 Even a defenitive hisemen with poor speed can wreak have on your opposent's passing game particularly passes over the middle -- provided that he has decent Author and good Endurance

When playing against a good rell-out quarterback, you can often get away with the Run Outside audible, esoccially on third-and-five or so

The computer opponent in FPS '98 is better at picking up Mad Dog and other livebooker bilitzes, so use those only as a change of page. But if you take the time to design your own safety bittags to tundem with a falle LB Bitty. you'll sack up tens of sacks, and your comerbacks will feast an more weak, humod tosses. -- Terry Coleman



COLLEGE BASKETBALL your team doesn't look like a sock or the Fleel Four, there are a few tricks you can try in this old stat-based Invorte from Lance

When setting up a name, always choose the option, with shooting percentages visible. This allows you to take shots outside of the normal offensive outtern-particularly helpful if you have a

Once you get key apposing players in foul trouble, put

own open shot, but who is adept at

your free throw specialists in and work the clock. While this strategy obviously works best weaker team from being blown out early-especially when you are pleying at home and have the cross behind you (a feature thoughtfully integrated into the otme's design)

If you like to play at a fest pace, but

your team has relatively low Faligue ratings, don't despair. Play appressively with your bench (Bun & Jump Press works well against ell but the best ballhandling teams), knowing that when one of your scrubs fouls out, other players will get a slight positive endurance boost to compensate. Later versions of Courtside heve an undocumented feature: instead of hitting the #4 key. If you are lucky, you'll be rewarded with a three-point attempt. Warning: this trey should be

attempted only by really good shoot-

ers, or saved for when you're truly

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#### WELCOME TO THE COOPERSTOWN OF COMPUTER GAMES, Here you'll find, raised upon pedestals, the games that broke the records, established the benchmarks, and held gamers in delighted trances for hours untold

#### New Inductees! Command & Conquer

Westwood Studios/Virgin 1995 n the last two years, no gaming genre has risen to such huge prominence as real time strategy

games. Today, more and more companies are recognizing that real-time games deliver the combination of intense action and quick-thinking strategy that millions of namers crave. None of this-the commercial and official success of the genre, the number of devotees, the innovative

gameplay-would have been possible it it weren't for Westwood Studios and its million-dollar success, Communo & Conquer. While Dune ill established the genre and developed a loyal following.

Covwwo & Covaum comented the dominance of real-time strategy games. It's success was no observation, it definered areas gamentar, innovative francies (such as unit eroupines) that are still corried, and multiplayer maybeen. With two different sides and a good multimedia storyline, Westwood succeeded in crafting a compating single player experience that was emmeraty replayable. Gamers built bases, harvested one, drafted massive armies, and worred against computer and human opponents in fast thinking, intense comes of

mental and mouse agifty. In 1995, that experience was nearly exclusive to Cowavas & Corcury, Today, we have a huge field of more advanced real-time strategy games from which to choose, and we have Westwood's Coverage & Conques to thank for it.

#### MechWarrior 2

Activision, 1995

IS Was the case with Covavino & Covousing Miscolliferation 2 district create its centre, but you could say it legitimized it. MicHWatron 2 established the idea of a continuous "samulation." From its serrous treatment of Mech design and resource man agement to its complex and addictive battles, Mico-Waynes 2 set a benchmark that still stands today.

Never before had a robot sim demonstrated enough detail and perceived realism to make a believable, completely engaging garning experience Meg-Waston 2's incredible realism was one of the things that led CGW to splinter "Space Simulations" from Simulations as a separate genre unto rest. One of the game's pigneering elements was NetNech, which allowed Mech pilots to bettle each other online at no change. Even the designers had to be pleasantly surprised when scores of clans appeared online and began bat tling for their clan's honor. People even went so far as to go online and

debate as to whether the performances of certain fictional weapons were accurate or not! In an industry known for shooting star titles that become obsolete in months. it's amizano that Micel/Neises 2 hasn't had a contender come close to unsetfing it in the two years since its release. Only time will tell how long Mich Www.cx 2 will reign supreme in the highling robot sim arena, but one thing is certain—all future robot sims will be audged against the tremendous technical

Autor in tel Bank (I Motics, 1662) Leisz Migh fotor goes 50, vidi shifting crassus BATTLE CHESS (Interplay 1988) BETEATH, AT KNOWGON (Dynamia, 1995) As sich and Knognitus as Reymond Feet's world text to 30 paragodon was train

CRESSMASTER (Sultruster Technolics, 1986) The Catalian of circling this chass renderalized grass tester with catch version **Dures on Master** (FTL Software, 1987) Fand school graphics digitated allows and great back and stock from a decade ago.

Dur or the Tentucus (LucioArts, 1960) Grand served to Mean's Members that intracting coals Dogwood Software, 1983)

Recolution and PC aution garines and reterrik getting, suspensed in Michigany But not gameging EAST, WOMEN EASTERING (EA.1686)

Energy Orderstel 19705 F-19 Streets Feature (MicroProse, 1986)

A "Billiang man s" sits, under great executions in without sneaking in-ound is an fast as Bogfighting. Falcon 3.0 (Spect am Holadyle, 1061) kept detilogist om vids andfolios Al graphics, and consistent to earlier to realize FRONT PAGE SPORTS FORTHALL PRO-SOURCE, TO Bustranums: The Tanames Poor (503), 1966)
First remains order at center changed the look at at
American Davi filtr opening on the PC

Busine (McnoPease, 1988) They character products (MMI for begood plans, Harring (200 Panin, 1965)

TE GOLDEN WELL

Kampresurre (SSJ 1985) Amond statute on WWIIs Eastern Frent, officed snapping balls; or militair platforms.

Keep's Queer V-Skirst On-Late, 1960s Rocking the graphic adventure with men test based project and NGA graphics Lewisias (Paygeosis, 1991) The brothe caroon Urburans right scaffure has en

Lines 365 Peo (Access Subvive 1992) Topied the leader board in graphics and review M-1 Taxe Plantes (VictoPrate 1886) edictic orn that properly locused on armound by ma-tric little single rethroliss good recover Mastes or Massa (MosoPices: 1984) The almosphere and renery of Moso Tile Generalia

Marrie or Describbook and 1937 Moon Emeacy (SSL 1985) Meant & Massc Play World Conscious, 1989. First person, more based RPG with turge environment and rough tectical comball.

M. U.L.E. (EA, 1983)
A tricitori muliplaye spategy game that had eo exapose of deal scalou, gast cultimori competition that

Bearing Courses 1991 1994 Rea Europe (Dynamic, 1890)

BM with creat graphics, incredible region Sig More's Course on MicroProse, 189

So Note's Pisates (MicroPicos, 1987)

Sto Hessa's Rauxona Treson (MicroProps, 190)

SunGay (Maxis, 1987) O bits planning with fractioning consequences and challenges the first print software for Street, mar IFA 16663

Gapth, grant characters, and a good so it storyone set early sciences to MPGs. THE MANO'S TALK (EA, 1985) see pont answince 3D polar mass, and

THE SERVEY OF MOMENT BRAND PLANSAGE, THE Term Frank Neum (Lucios Arts. 2005)

THE Francis (Lucas Arts, 1984) Ideal saletying Sian Harn space control game to date tels you lard on the dark code Octowa 48 (Ongon Systems, 1983)

Durana IV (Degun Systems, 1585) High concept FPG exproved areaving of white and put the RGLE in referebying Durma VI (Degin Systems, 1993) Octobal Descriptions (Origin Systems 1992) The first budy 3D PPG, and still the mixed commoning, as disregated with serve nearly it parties? and reduce managed

West on Museum (SSI, 1984) Many control from Europe Factor & recovered the Westerano (Interplay, 1966) Derived trem Mike Bracipole's Morcenanes, Spies, and Private Eyes, Itis is the definitive

Wees COMMANDER I (Drigon Systems, 1990) Wine Communicate II (Dright Systems, 1991) Wine Communities III (Cripin Systems, 1994)

Wigazant (Sir Tech Software 1981) Orlined the computer FPG with state based weights: WOLFESTERN 3-8 od Software, 1992) Smooth scratting adien blosted ideasty updated the angroid and put sharouse back on the man X-COM Odaya Pross. 1804) Termin Satisfal speed level pepins consisted neith vitus

Zoes (infocure, 1981)
The progenitor of advantum games on the PC its
borror sed challenging puzzles seem kinetics

and commercial achievements of this Hall of Fame classic

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CGW's Loyd Case teams up with GameSpot to bring you this ongoing instructive series on ways to improve your computer's performance when running games. In Part One, we demonstrate ways to tune-up your computer such as defragmenting your hard drive, setting up the Windows 95 swap file, and more, Watch out for a new installment to the PC Workship at least drom s enco

#### Demos

GameSpot has the most thorough and regularly updated game demo libraries on the Web. Here are demos you'll find to some of the games reviewed in this issue: Londs or Mysic, Sue Culture, Wiva Communicia Pageviery Steri, Printiers II. Whents 2, and morely

Vist Game Soot for demos, hints, tios. strategy guides, and more for the games covered in this issue. Just enter www. spot.com/april98 imo your browser to find the tallowing coming assentiats:

#### Demos and Patches: Sits Culture Who Commander Prophecy Frogger

Lords of Magic Sid Meler's Gethysburg Seven Kingdoms Great Battles of Hannibel Steel Porthers III Whome 2

#### The Curse of Monkey Island Seven Mondoms

Strategy Guides:

#### Quake II Seven Kingdoms



#### Designer Diaries

Ever wonder what's going on behind the scenes while those much anticipated games are in development? GemeSpot's Designer Dianes follow the progress of name designers such as Jane Jensen, who is emberland on her third Gyress, Kyrayr pame for Sierra On-Line, and Tim Schafer, who is working an Green Fevorence for LucasArts, Ion Storm's Torn Hall also gives GameSoot readers recular updates on ANYCHROVCK, And, just addod: Armyterer's Ram patent S.

## What's the Deal With...The Death of FMV?

esode the error weak, and Punctusawtzew 2 world gency carrier stimulation that will be nonvirted to EMV by the shirty new DVD drives in our computers Libinia one in the traditional format it's pretty safe to say that we are nearing the last days

of Full Motion Video as a viable gamruns deep into the current standard ing medium. White this is hardly LZZ AH FMV news, it's important to take a moment and reflect on why FMV tailed On the surface, it seemed life a does is nice extension of the whole advenreduce vour ture come concept I mean, after all. wasn't the whole "move your gray gaming rig to around the screen and click on hotspots" motif just dying for real actors instead of sprites? Funty a very expenenough, the answer was "no." but sive and the reasons for that are a little more subtle than most designers are willprecise VCR. ?? ing to admit. People tend to choose the woost of the form to justify the

waste of money Of Ken Williams had no trouble last year claiming that FMV was just not working out for Sierra, Of course this was something of a red herring. because what wasn't working for Signs was the writing in its games. not the medium. Here's a news fasti-There is one excellent honor writer under Ken's command at Sierra, and the disesyl/ share the same lest name. as Siena's former CEO, Previous vaces, would still have been a little

premise that the whole concent is a

still have been asvenile ponno horror tripe even if they had been using a networksbie holographic imaging system with a thumbs up from God. On the other hand. Guarri Kursurs 1 & 2 were equally brilliant, one in FMV and No the real weekness of PMV.

of adventure names, which is why these games lent themselves so well to video. It's all about freedom-and

the lack thereof.

Remember back in the prehistory of computer carring? Back when Cays'vi, Caveras and Zonx were almost the only games in lown? Now as limited and basic as those names. could be at times, they did strive to create the illusion that the player was in control. Sponer or later you came to realize that the Caverns weren't at that expansive, or that the computer

had no idea what "Smash guy with painting of king" meant, but the lack of freedom wash't constantly nushed into your lace, as it is with FMV.

When adventure garring went graphical, you knew in your heart of hearts that your coffers had been cut down a bit, because nobody had the time to animate all the dumb things you wanted to do. But the sheer thrill of actually speing what everything looked like-and of actually hearing. the dologue--more than made up for the lack of control, at least initially. Unfortunately, the same can't be said for EMV. Write it is kind of coel to watch real people act when you click the mouse, it's just not enough to cover up how narrow your parring universe has become

The problem is that we can't belo but know that they haven't filmed the equipplent of three or four movies so. we can stick our hero's arm in the

tailet, just for the hell of it. Any sense of exploring a virtual world is: replaced by simply casting about for a limited number of holspots and seeing what two or three possibilities. have adually been filmed. Video just cannot provide the Itsedom that coded graphics can (and do) provide And, in realty, all FMV does is reduce your carrier no to a very expensive and precise VCR.

I would think that we'll be seeing. the evolution of full-3D simulated adverture environments (No those found in Dask Easter and BLAZE

Purvieré long after the bottom drops

out of the blue screen market. Real tans of FMV shouldn't throw themselves on their swords guite vet. of course; some great titles will probably always be made, such as Tix Murphy or the Wing Convented installments, not to mention excellent

experiments like Psychic Directors The final roll in the collin of FMV for me personally was watching a demo for Interplay's new Stay Trok name, Vuovi Fuey, Seeing those brauffully randered graphic versions of Kirk, Spook, and the geng in their prime, inclusion around in that classsic Enlayonse, I thought, "This is what I want! Not old guys with gridles for even worse, newfangled, limp wristed Mod Guossilov characters), but the old characters I knew and loved--just in new advantures." Time can't been

a pood sprits That's the real trouble with FMV: Realty often bites, and computer games can be so much more. Why habble games with aging actors, expensive sets that still look shoddy. and not much more freedom than you can find with a VCR remote? I hope FMV will remain an interesting footnote in gaming, somewhat alide to all those funky things the French were doing with film in the late 1800s. which were interesting but just never caught on. I also hope that all that Hollwood money can start going into advanced graphics, befor writing, and

voice actors who can really act. %

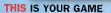
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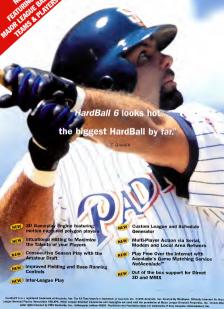
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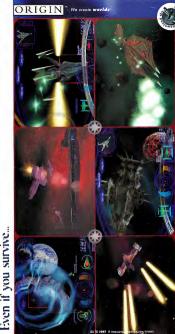


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