

## Virtua Fighter

The creator speaks

Sega's Yu Suzuki breaks his silence

on Virtua Fighter 3. Daytona 2, and Sega's future coin-op plans, Page 6

## **Power Players**

We name the 75 most powerful people in the game industry



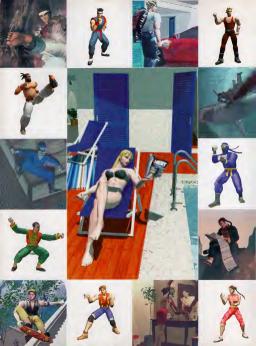
## Artificial Intelligence

"That stupid videogame!" Actually, it's probably smarter than you...

volume one







## opening



## The Art of Virtua Fighter

Without Yu Suzuki, Sega would be dead. As head of R&D for Sega's Amusement Division, Yu Suzuki to Sega what Srigeru Miyamot (the creator of Mario and Donkey Kong) is to Nintendo. Put simply, he creates the illebiood of the company — and he is indispensable. Without the trickle company—and he is indispensable. Without the trickle source is to be supported to the company of the Section Sega would liest he liter weepons with which to batter. Sega would liest he liter weepons with which to batter. Sega Would liest he liter weepons with which to batter. Service 'Haso/Service In Section Section

Yu Suzuki's list of credits as head of Sega's AM2 team reads like a rundown of arcade garning's greatest hits. From 1985's ploneering trio of Hang for, Space Harrier, and Out Run, through the evolution of 1967's After Burner into 1990's GLOC and R-360, Suzuki's AM2 team has blazed a trail that others only did their best to follow.

Then in 1992, he changed gaming forever with Virtua Racing. Overnight, "polygons" became the buzz-word of an industry, and VF's successor, Daytona USA, still provides the best wheel-soin the gaming world has to offer.

But Suzuki and AMZ will be best remembered for the creation of the Virtua Fighter seles in 1993. An instant classic, Virtua Fighter is arguebly the most significant game the 1990s. It is optionates Suzuki's skill off Inding the perfect blend of sixtie-of-the-art technology with solid of games for the cut-throat world of arcades), Virtua Fighter is the biggest game in Japen since Super Mario World, it's fast, it's beautiful. And yes, it's probably art.

In November of 1995, Yu Suzuki's Saturn convertion of Virtua Fighter 2 will near its completion, Virtua Striker and Virtua Cop 2 await their areade debuts and, perhaps most importantly, Virtua Fighter 3 tooms in the near future. Never before has Suzuki's output been so prolific. And never before has the future of Sega weighed so heavily on his shoulders.

But important though Suzuki is, there are others like him. Others that run the games industry from behind the scenes, In an exclusive expose, MEXT Generation names the Top 75 movers and shakers in the business. Some may surprise you. Some may annoy you. All have influenced you. Power Players starts on page 48.











## GENERATION

### November 1995

## Contact

SORTION SERVICES OF THE SERVIC

Editorial

Net West editor-in-chief

Dougless Perry managing editor

Teet Ward vestews editor & purple bood

Chris Charla associate eritar Eugene Weng associate erit director Sichard Secto associate art director Eric Marcoullier web-singer

Editorial Contribators Pasick Registra, Nicolas di Costanza, Ches Hadak, Steven Kent, Frencis Kont Jeff Landryan, Marik Remokas, Dane

Semeré Yes, EDGE Magazore

Advertising

Doug Feast of manager
Aldo Chiasti Secount messative
Sanon Whiteanhe busness development
Heledy Streetwasse ad coordinator

Subscriptions
Gell Egbert subscription director
Julio Lalles customer services

Production
Richard Learney production director
Report Barchill production coordinator

Imagine Publishing Inc.
Janether Singson-East publisher
Herr Kooser markeding toordinater

Melody Stephonias she writes the serge Maryanne Kapell dit single copy sales Doeg Hayrie circulation analyst Brece Edendge remotand sales manage Tam Valentins vice president FO Cheld Anderson president

HEXT Secretary (1531a) 5/72-56/31/5 juil-likely of Indiges (1545a) 5/72-56/31/6 juil-likely (1545a) 5/72-56/31

Enfire contamb capyright 1995, Insegne Publishing, Inc. all rights receive Reproduction is whele or in part without pendiation is prohibited. Produced in the United States of America

Produced in the United States of America.

HEXT Generation shares obtavial with a:
UK engagene, EDSE doed both Francis
Thanks to The safe "And last but not load
— this overs for Subbly P.S. Not men our
memory and the Size does the machines."



### Nothing compares to Yu

Vs Stabile, director of Sega's AMI arcade division, is responsible for focusing Sega on the cutting edge. It's no easy task, but from 1965's rising On to 1994's Visual Pighter 2, he has traumphod. In this care and exclusive interview, he gives his vision of the future



Mind games: the rise and rise of artificial intelligence

Did you realize that motiving computers play stope is one of the beggest problems foring game developers! If not, then read on.

Graphics make games look precep, but it's artificial intelligence that makes them Interesting to play. A NEXT Generation report



## 75 Power players

Have you over wondered who really russ the game industry! Here the top 75 movers and shakers from game designers to money men, we wettere capitalists and policiones. It's concroversial, it's bound so get NEXT Generation into trouble, and it starts on p. 48

First word on the Senen 2's defense contractor contaction + Report from the European



Bethesda's Degreefoli offers the first RPG vertual world. Winz Arms, Seps Rely, and Virtus F 2 prove that Sesure has what it takes to please 32-bit gamers. Plus Scavenger and S.XOR.M



## Finals: 49 game reviews

III. NEXT Generation's reviews section is the essential guide to finding out which games are worth your time and money

### talking

Nothing compares to Yu One of the most influential state designers on the planet class up in to the fature, according to Sees

### breaking

News The latest news from the videounning world-Movers 'n' Shakers (hariness news)

Arcadia (made the com-go inclustry) Joyriding (paring online)
Generator (parin development news)

## subscribing

Save time and cash Have the world's best game magazine delivered straight so your door and saw money too

### 36 ng special

Mind games You can't play a one-player game without artificial intelligence. A look at the brists in the games

## ng special

75 Power players The non-75 secole in the industry. Some will surprise

you, some will annoy you -- all have influenced you

### 81 ng software Alphas: 20 game previews

The leading edge of computer and video go rate here, including Desperted (PC), Sens Asily Shockeone (PC). The Strike Series (multi), Anche Detective (multi), Shredfist (multi), Chranometi Wise Acres (Sapure), Deccent (PC), Indy 500 nester (PC) (Arcade), Virtuo Cop 2 (Arcade), SattleSport (3DO), VR Saseball (Saturn), 3D Boseball (Saturn), Real Arch (Saturn), Shaneg Windom (Saturn), Scavenger (multi)

### 168 rating Finals: 49 new game roviews

For reviews that go beyond "adversorial" hype, we offer the hest is the hunners. All the latest releases reviewed, including WiseOut (PlasStation), (ast Gishators (Saturn), Poszer General (100), Aparha (PC), Virtue Fighter (32X), Between and Robin (Sept CDs. Martol Kneshet III (Genesis). Secret of Function (Super NES), WWF Wrestlemons (Arcade)

### 196 now hiring Plake your own 'big break' with our extensive

section of industry recruitment advertisements 202 corresponding

Letters Got something you want to get off your chest? Let NEXT Generation be your sosp-box Next month...

## 208 ending

NEXT Generation #12 hits the newsstands on November 21, 1995. See for yourself what's coming

## SAVE HUNDREDS OF DOLL



## ARS ON FIGHTING GAMES.

## BUY THE RIGHT ONE.

The one with enough phenomenal reviews to take down an entire forest. The one with super smooth texturemotion captured martial arts moves at of view, whether you're kicking someone's butt or getting yours kicked. The environments you've ever seen, in

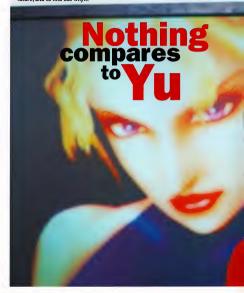
60 frames per second. The one with four points







Sega's AM2 Arcade division has been responsible for the longest uninterrupted string of arcade hits in history. Yu Suzuki is head of AM2, and without his games, Sega's battle againts Sony's PlayStation would already be lost. NEXT Generation tracked down Suzuki-san in Tokyo to talk about his games, his visions on the future, and ho find out why...





"No competitor strikes me as a particular threat, but in the domestic consumer market, Sony is doing very well, considering that this is the company's first time entering the game business"

year ago, Yu Suzuki's comments about the difficulties programmers captured in the difficulties programmers are supported in table grantage of the Sazum's dail CPUs sounded the first warning tign that Segi's Isteat 33-bit gaming system might not be the revolutionary breakthrough for which people had hopped. For many American gamers, this was their first introduction to Mr Suzuki.

Although learneasity familiar with Mrs. Sazulufs games, from Spone Harrier to feling fin to Virsue Recitig to Writer Righter 2, he remains fairly anontymous in the United States, aft or cy from Japan, where he holds calebriny status on par with any rock star or other pop hero. While Mr. Sazuluf has been the subject of extensive mode coverage in Japan, this interview may be the first chance for American gamers to get a look inside the mind of Seakh recitions results.

### AM2's games NG: Why is it that you have produced so many

driving games in your career?

Mr. Suzuki: Sports cars are extremely popular

not only among pamers, but among most min in general. Thus, developing realistic firming games is the best way to satisfy that large sudience. That's he reason we develop to many rating games. NG: Which AMI game are you most prood off Mr. Sauskill of Jain games, my sorrers is Vinus Figlius Z. Pins of all, think the 3D computer of the same o

As well as expressing turnar motion, it also made it possible to feel the weight of each movement. Also, an element that I personally like is the counter move. Up until now, the player smiph held the guard button and couldn't attack during that time. But in VPZ, skillful use of the guard button enables you to go on the offensive with a counterattack, and this adds significantly to the death of the game.

NG Are you always proud of your games?

Mr. Suzukis: Of course. The development of each game holds many memories, and while I don't like to use the word "proud," I'm very happy with each of my games.

NG: Which of your games do you think was the most impressive at its time of bunch?

Mr. Suzukit. Hong On, developed in July 1985. It was a project I started shortly after joining the company, and it helped to revolutionize the table-

type videogames of that period. And obviously, I was happy that some of our new ideas were received well. NG: Can you explain the differences and

140. Car you expand the discrete and



Ye Sarahi is transfer with rock star status relationships between AM2 and the other AM divisions? Mr. Suzuki: Ar Seo. AMI through AM3 make department's unique

videogames. Fach characteristics can be seen in their games. In the case of AM2 the result is a large number of realtime 3D computer graphic arcade sames oriented toward bieb-

end machines. There is an appressive effort to share technology between the departments, but these departments communicate and behave in a way that the uniqueness of each is processed outs well

NG: How much freedom does Sees give AM2 in terms of financial and creative freedom? Mr. Suzuki: All departments are treated the same.

NG: How important is AM2 to Sega's success? Mr. Suzuki: Please interview someone besides me for this question?

annear in Wil. We are also considering adding some new characters, although I can't specify how many vet or who they are. The characters' moves are also confidential at this point. But we will definitely include new moves

NG- Will Virtus Fighter 3 remain a three-button rame, or will the addition of new moves require a move to a four or six button configuration? Mr. Suzuki: I don't think this will change. The button count on the same pads should remain a three-button, eight-directional system.

If we consider ease-of-play as the most important aspect, I think the fewer buttons the better. I believe one of the basic tenets for arcade games is that people of any age can play and enjoy them to a certain extent. Therefore, I think we will stick with the current three-histon system NG: VF I was set in Japan, VF2 had a more Chinese feel where will VE3 he ser?

Mr. Suzuki: This is a good question. The setting is actually not decided at this point, but it will certainly be at least as beautiful and as smooth as VF2's backgrounds and scenery.

### Virtua Fighter 3 NG: What can we expect from VF3?

along a 2D plane

Mr. Suzuki: Virtuo Fighter 3 will be a game in which the fighting is closer to artial martial arts. with character motions that are more realistic than either AM R&D DEPT #2 VEL or VE2. We are obviously proceeding with the aim of surpassing

VF2. And we're investigating the specifics now, but unless it surpasses VF2, we can't call it 3. I can't comment further except to say that we will make a game that lives up to users' expectations. NG: In Virtua Fighter 2 and 3, the characters are modeled in 3D and the camera angles are 3D as well, but the action that the user controls takes place

You can't, for example, attack from the side like in Toshindon. Will this change in Virtua Fighter 3? Mr. Suzuki; The fact that the game is 2D from the player's perspective probably won't change in VF3. If the viewpoint changes rapidly

during sameplay, the player can't concentrate on the game, and it's difficult to keep up with the situation your character is in, as in the game you've mentioned. I can't say anything for certain because the final decision hasn't been made, but I think VF3 will remain 2D in the sense that VF2 is. During replays,

however, we would like to use many effective 3D viewpoints to recreate the action. NG: Will all the characters from VF2 be in VF3? Mr. Suzuki: All of the characters from VF2 will

Personal NG: You must own a cool set of wheels. What kind of car do you drive? Mr. Suzuki: I drive a Lamborshini Diablo, Laiso

have a Mazda MX-7

NG: What do you like

best about making sames? Mr. Suzuki: One of the things I like best about this industry is that what I create is evaluated by players. There is a direct link with the user and I like the feeling of tension that gives the creators. I also place great hope in the emergence of the next separation of creators with their various talents NG: Do you prefer programming or playing sames? Mr. Suzuki: I enjoy programming more. And I can't think of any particular reason why. In my case, I enjoy creating the game, but my level of interest

NG: Do you play videorames in your spare time? Mr. Suzuki: I rarely play videogames in my spare time. Rather than videovames, I am interested in movies and theme parks. Movies by Disney and Spielberg, for example, and attractions such as Disney's "Tower of Terror," and "Allen Encounter." NG: Why do you like movies and theme parks

drops once the game is completed.

more than videorames? Mr. Suzuki: Theme parks and movies provide different perspectives for me, and I can absorb energy from the different genres. My favorite theme park is Disney World in Florida NG: Have you ever tried to integrate elements

from theme parks and videogames together? Mr. Suzuki: Afterburner and Hone On are two games we developed in the past in which the machines themselves moved.



NG: Do you still work on programming and design yourself, or is your job mainly management? Mr. Suzuki: My role is mostly management, but I check on the programming and design all the time, and sometimes do some myself. NG: Are you personally more important to Sera than Shigeru Miyamoto is to Nintendo?

### Mr. Suzuki: I do not know. Game Design

NG: Can you create games on 32-bit platforms that can't be done on 16-bit. Not just graphically, but in terms of how the gameplay works? Mr. Suzuki: A game is not wholly dependent on the specifications of the hardware. If the basic concept is solid, whether the hardware is 16- or 32-bit shouldn't matter.

NG: Do you think that as hardware power increases, it enables programmers to be less efficient in their coding? Are today's programs as raiented as those of 10 years ago!

Mr. Suzuki: It is true that the increased power of the hardware does make it easier to program in a certain respect. But the efficiency and structure of the final program are both largely dependent on the abilities of the individual programmer. So while it has become easier in certain ways, the reality of the process is still highly dependent on manpower. The comparison with programmers of 10 years ago is difficult because of the change in hardware power, but I don't think there has been a dramatic change in the quality of developers. NG: What are the biggest difficulties when

making games based on real life? Mr. Suzuki: When making a simulation game, we always face limitations because of the rap between



artwork featured on NG's cover is part of a ar collection released on a Satera CD in Japan

the hardware's abilities and reality. There are many things that are technically impossible to duplicate in a game.

But if we don't concern ourselves with reality (and by reality, I mean things like the expression of Gs of acceleration on the body, or the "feel" of worn tires when driving), almost any game can be made. To express those elements would be very difficult. My personal policy is

to do the best we can under those circumstances and that policy has not changed with the shift to 3D computer eraphics.

Beginning with Hang On, I have have been working on simulation-type games now for 10 years, but my policy has not changed in that time. NG: Do you believe in the pursuit of realism in games for realism's own sake!

Mr. Suzuki: No. It's extremely easy to make a simulator. The real key to success is building in strong sameolay elements. But overall, the way the objects and characters move in a game are equally important and necessary

NG: What do you concentrate on first when creating a same Mr Suzuki: In general I emphasize the gameplay

elements. Once peak efficiency at that stage has been reached, we move on to the graphic elements. But ultimately, the balance between the two is important to success. NG: When is it constructive to give personalities to same characters (i.e. Virtue Fisheer), and when is

it best to leave games without any "human touch" (i.e. Daytona USA) Mr Suzuki: We did try to include a human touch with Daytong. For example, the inclusion of the pit crew added a touch of reality to the game.

### Working with Saturn NG: Back in 94, during the creation of Daytons

for Saturn, you said that "Trying to program two CPUs has its problems. The two CPUs start at the same time but there's a delay when one has to wait for the other to catch up. One very fast central processor would be preferable. Do you still stick by this statement? Mr. Suzuki: This comment itself is inaccurate.

but what I said was that it is more difficult to create effective programs and operating system for a multi-CPU system. It is possible for some talented programmers to draw out the full potential power of two CPUs, but it is not an ideal environment for the average programmer. I think the ideal system would be a single CPU producing the power of multiple CPUs.

NG. How difficult do you think it is for third party developers to work with Saturn? Mr. Suzuki: The newest version of the operating



"If it's possible to link the user's brainwave responses to the game character's movements. the character would become the ultimate second self"





The influence of Yu Suzuki's 1985 Outsitus can atili be seen in today's driving games. The open

"I enjoy creating games, but my level of interest drops once the game is completed"







The AM2 team is not o responsible for areads development, but for i Seture conversions, to

system and development support system Begs Graphics Charryl Mes Speal Mir lease in Sept Graphics Charryl Mes Speal Mir lease in Sept powerful and it should make it sealer than ever before to make games for the Sasum. NGE from a sedendegy parapetens what is the Sasum degle in the Interviewe warr! Mrs. Sasuakii. Heel that where warr! Mrs. Sasuakii. Heel that the most important function in a game is realmen image processing. The Sasum hardware is strong in stems of internatively performing that find of processing, mortal processing and the sealer of collection of Sasum's power which Sasuakii vs. Links so.

The competition
NG: Which of Sega's and AM2's competitors do
you watch most closely!

Mr. Suzuki: No competion strikes me as a particular threat, but in the domestic consumer mirket, sales for both the Searm and PlaySution are doing very well. Sony is doing very well, considering that this is the company's first time entering the game business. MG: What do you think of competitors' sames

ide Tekken and Toshinden?
Mr. Suzukit: Each game has its own unique characteristics, and seem like good games. The whole genre of fighting games is a very rewarding one, and I would like to continue trying various appropriates to it.

NG: Are you looking forward to the release of Ultra 64 with fear or anticipation! Mr. Suzukit: I'm tired of waiting, and I hope Nintendo releases it soon. NG: How intense is the rhalry between Namoo

and Sega's arcade divisions?

Mr. Suzuki: I've never really thought about it, so I can't comment.

The future

The Tutture
Mic What is the finare for Virtual Resility
Mr. Suzukić: I think virtual resility technology will
become widespread in theme parks and uburban
starscious. After that, it will spread to
ammented the finality. A will reach
consumer beawsess. But I don't brink virtual
mounted disply), I think HMDs will make it into
the home, but stratchions that use large, curved
screen displys and high-quality motion capture
systems will arrive sooner and then spread our
from siburban structions.

From sourcan structions.

NG: What do you think the future holds for arcade games, over the next 10 years of MR. Suzukit Fin years is too far in the future for me to comment on, but in the next two years I think hardware will concline to evolve. This may take the form of higher image quality to the point of approaching reality, or more advanced.

interfaces — there are many things to be done. But while the evolution of hardware is important, it's meaningless unless the software keeps up with it. The software must therefore

NG: What is the next technological step beyond vet more complex 3D graphics? Mr. Suzuki: Personally, I would like to explore the unknown possibilities of interface systems. Currently most eames are built around three buttons and a lever. But in the future, if it becomes possible to link the user's brainwave responses to the game character's movements, the character would become the ultimate second self. NG: What future projects are you working on Mr. Suzuki: Virtua Cot 2 for the arcade: Virtua Cop and VF2 on Saturn; VF 3 for the arcade, and a fighting game called Fighang Vipers for the arcade. NG: How does Fighting Vipers compare to VF2? Mr. Suzukl: FV is characterized by a fighting style without ring-outs. We received comments about the ring-outs in VF indicating different changes, and so for FV the fighting can continue mercilessly.

NG: Are you glid to be working for Segs as videogames continue to evolve and to grow into the 21st Century? Mr. Suzuki: Yes.



Posing with Seeah Sryant, N6's cover star, Suzuki refuses to confirm if she is based on a real perso

Œ

## FRIENDS DON'T LET FRIENDS FLY SOLO

2 GAMES

2 CDs INSIDE

And with Werewolf vs. Comanche 2.0 you don't have to. That's because with two killer (d) games in title

direct connect) vou can go head-to-head

team up for

cooperative play or fly solo

GAMES WITH MULTIPLAYER CAPABILITIES

MODEM, NETWORK & DIRECT CONNECT

VEREVOLE WILLIAM And whether you're at the controls of Russia's premier attack helicopter or its fearless American counter part, the RAH-66 Comanche, you'll he flying over the crystal clear reality of Voxel Snace of terrains and experiencine over 100 haireaising missions Missions you have

never seen before

even if you're a

Comanche vet.



Werewolf<sup>®</sup> vs. Comanche 2.0' Sometimes your best friends can be your worst enemies.



What's new in the world of computer and video gaming

## **US defense** corp holds key to Sega plans

largest military contractor is proving crucial to Sega's strategy

> midst the famir surrounding the launch of the Seturn in the Wastern hemisphere NEXT

ration has uncovered details of a followers machine circler development at one of Sega's affiliate companies. Florida-based defense and NASA

contractor Lockheed Martin - pioneer of the graphics technology used in Sega's Model 1 and Model 2 arcade boards - has been working on technology for a higher-specification Saturn system since last September. It's believed that this second generation machine will be made available to developers late next year.

It's not unusual for a company in the business of selling videogames hardware to begin work on a successor system before the release of its market-ready hardware. However, in the case of the Saturn, swelled from developers and internal staff over the machine's fundamenta shortfalls and architectural

untidiness has forced Sega to adopt a strategy that may result in the original machine (which is still well under a year old) being prematurely upgraded or perhaps even phased out altogether. The onginal Saturn was subject to

a host of development hiccups. Shortly after Sony's announcement of the PlayStation back in November 1994. Sega scrambled to complete a



eleging the Model 2 board (Desert Tank, above) and the I

redesign, working with Hitachi to increase the specification of the Sature it had planned (which included just a

single \$442 and was closer to what eventually became the 32X1. The resulting hardware was a conception of sticon that has failed to endear Seda to its developers. When Sega ect its first elimnes of what Sony had in store. it immediately looked for a way out-

The decision to produre the expertise of graphics specialist Lockheed Martin was based on the company's previous achievements.



Lockheed Martin has been working with Sega on technology for a higherspecification Saturn

system since

last year

including the co-development of the Model 1 (Virtus Recyst) and Model 2 (Daytona USA) boards and its range of Real3D polygon chips. Segs initially approached Lockheed Martin in the fall of 1994 to design a new gamebox that would replace the Saturn - which was due to ship two months later in Japan - but due to the strong relationship between Sega and Hitachi (which enlovs support from many of Sega of Japan's VPs) it never happened.

Now Sega has conceded internally that Saturn will face tough competition from the PlayStation and will not be able to match the onslaught from the Litra 64 in 1996, Lockhood Martin has therefore been given the go-shead to start work on Saturn 2. although it's not yet known exactly what form it will take. The current understanding is that the system will be a standalone console, but it's possible that Sega could save money by using the existing Saturn as an I/O





As with Sega's coin-op IG boards, Lockheed Martin will be concentrating on the graphics side of Saturn 2. providing a R3D/100 graphics chip which includes both a geometry processor and a graphics processor it's ourse possible that Hitachi will supply the front end (possibly

PowerPC-based) - It was rumored that Yu Suzuki and other Sega com-op honohos had wanted Lookheed Martin to handle the whole project, but this was vetoed internally because of delaws with LMC's development of the Model 3 IG board.

The division of Lockheed Martin Corporation responsible for Saturn 2 and other IG (image generation) hardware is the Information Systems group, headquartered in Orlando, Fla. This group was continually part of General Flectric Aecospace and was located in Daytona Beach, Fla (across the street from the Daytona International Speedway). After the completion of the Model 1 accade board, GE Aerospace was bought out by Martin Marietta and was interreted

into the Orlando Information Systems group. Martin Manetta mergad with aerospace giant Lockheed last April. LMC's involvement

with Seria dates back to General Electric's co-development of the Model 1 board first used in Virtua Racing. When Sega's own engineers failed to make significant progress toward an advanced texture-marging version of their leading IG board (which would



## Who is it?

## Hasbro kills \$59m VR set

asbro's plans for a home ine (see NG 7) have en scrapped, with the any stating that of ts were too high to ce. Based on Arg ect has cost Hasbro ar imated \$59 million in 1992 - \$36 million in 1995 alone.





### Model 3 In most 10 (image

re are two parts: a st" that basically ru he game (in the case of ga's Model 3 board this PowerPC front end), and a raphics part that draws the scene. The host runs the 30 world, performing the collision and telling cture, lighting, etc.) ere to put the polygons R30/PR0-1000 chip is expected to be arranged in ilel in the Model 3

rd, with each chip capable of rendering 750,000 textured, shaded. gged, and anti-aliased





become Model 2), the US company was called in to lend assistance, and Model 2 appeared in early 1994, At the time if was known that Yu Siraki was eager to give the whole project to Lockheed Martin, not just the IG side. As well as the development of Saturn 2, LMC has been central to the

work on Model 3 - Sega's hugely delayed successor to the technology behind Devtone USA and Sega Rally. This ultra high-end board was supposed to be ready in time for three Model 3 games due for release this year. As well as Virtua Fighter 3, NEXT Generation has learned that the watered-down Indy 500 (see page 136) was critinally tarrested for Model 3. but delays in the board's progress meant it was coded up for Model 2 instead. It is also understood that Lockheed Martin is still working on Model 3 prototypes, with testing still some way off.

Whereas Model 2 was a combination of Sega's Model 1 polygon engine technology and a Martin Marietta-designed texture mapping board. Model 3 has little in common with its forerunner. It is based on LMC's high-end R3D/PRO-1000 -a high-specification chip designed for low-cost, high-end visual simulations. and capable of delivering 750,000 textured polygons on screen - which is unrelated to the R3D/100 destined for inclusion in Saturn 2. It also uses a

Hitachi-designed PowerPC host board. There appears to be little doubt that, when it finelly appears. Model 3 will be the most powerful low-cost IG board in existence, despite the ground





tes (theil mot) \$86 age se of the quality of ed 3D that can be al 2 board (for left). nco'a System Super 22 va Racer, left) is the at coloce M

gained by home entertainment systems currently in development. One expert close to the project commented: "Model 3 was created for one thing, and one thing only - to push into of textured polygons for asfew dollars as possible. Nothing compares to it on those terms

Where Model 3 will leave new high-tech rivals such as 300's M2 for dust is in the amount of RAM available. NEXT Generation's contact points out: "You can build a box that can rumn three million polysters only if you have enough RAM to store 300 million polygons' worth of models. It doesn't mean anything for a machine to be able to MIP-map textures if you don't have enough VRAM to store multiple corries of earth map at different resolutions."

Since Model 3 is now unlikely to appear until the 1996 JAMMA show in Tokyo (and with Model 4 already being specced up), it seems likely that Sega's arch-rival Namoo could get a considerable head start in the entertainment IG arena with its rumored System 23 board. More details on this will probably surface at JAMMA '95. Expect a full report in next month's NEXT Generation on sale November 21st.



VF 2.1

Just released in Japan Is the first official update of successful Virtua Fields 2 cois-op. Sporting slightly different graphics nd even more balanced characters, it seems to be tended as nothing more an a curiosity for the VF2-mad Japanese market. Son't be too surprised if this version ever makes it to your









8 DEVASTATING SUPERPOWERS



SIDE YOUR ALLIES

FIGHT ALONG

PILOT AIR-CARS. DRIVE TANKS OR VENTURE ON FOOT

A FANTASTIC COMIC BOOK ADVENTURE BY D. W. BRADLEY OF WIZARDRYTH FAME



HURIGIN





Forget about that intergalactic brotherhood CTAD. 'Cause with Total Eclipse Turbo the space-combat simulation for the Sony®

PlayStation™, there ain't a heapin' helpin' of hospitality for light years. And with all those SQUId-faced aliens stopping in to party, you're gorna have to fire up your wicked welcome

wagon and get this 32-b. block party blazing.



"One of the best 3D shooters ever."

"Just gotta have it!" -Dieffard General



## **ECTS:** Sony and Sega The European Computer Trade Show is the fall's

biggest game exhibition. So who showed out best?

he European game industry's bi-annual trade bash took place in mid-September at Olympia in London and gave the industry its first proper taste of what's to come from Sega, Sony, 3DO, Nintendo, and the other major players over the crucial months to the holiday season.



As with the spring event, Sory's PlayStation dominated with an enormous stand covering one end of the hall, and the full range of UK PAL PlayStation games on display amounting to 45 from Sony alone (the

UK lags the US in number of titles, due to the necessary conversion to UK TV standards).

A particular cont of interest was the debut of the PlayStation version of Id's Doom, which looked

faster than the original PC versions. Jay Wilbur from id was also on hand to demonstrate the company's new title. Quake for the PC Sega once again shunned the show proper and laid on a bus to their nearby European



Headquarters, where the emphasis of its efforts was firmly on the impressive-looking Virtua Filiter 2 and Sega Rally for the Saturn. Appliem looked heary to remain a big fish in an ever-

shrinking 16-bit pond as its lineun included Batman Forever and Mortal Kombet 3. It did emphasize its commitment to PlayStation and Saturn as well, with Allen Thlogy available for both platforms around December

After a recent tooky trading period, Virgin was looking to bounce back with an introvotive cinemainspired stand and a game catalog (including some titles picked up from US developers) including Cybena 2, Heart of Darkness, and LucasArts' Rebel Assault 2 on CD-ROM. The 16 bit consoles saw Shirry's Earthworm Aim 2 and Cool Spot 3 while the

PlayStation has Black-Op's' Agile

Electronic Arts had a strong lineup with FIFA 96 (all formats) plus PleyStation conversions of Madden 96. Wyor Commander IV. Theme Park, Hi-Octage, and PGA Tour 96 EA's eagerly-awarted \$10 million development of Wind Commander IV

received a great deal of interest as did Crusader: No Remorse, both Corin. titles for the PC CD-ROM. The 3DO Company, looking in danger of being squeezed by Sega and

Sory, looked to reassure with its message, "Don't sell a dodo, sell 300." Emphasizing 300's upgradability options the firm has at the moment. Rumors continue to circulate around possible 3DO buy-outs or licensing moves involving the likes of Sega and Matsushita, All parties remained quet.

Nintendo relied purely on Killer Instinct and Olddy's Kong Ovest, both for the Super NES, to draw in the

crowds. Ultra 64 was not on show. Probably the biggest exhibitor of the show was Goean's demonstration stand (and bar), which helped attract people to the likes of Worms (all formats), the highly anticipated TFX: EF2000 combat sim, the almostherardous result of the Waterworld license, and Doom for the Super NES.

Perhaps the real message from this ECTS is that the on masse corporate takeover of the same industry is nearly complete. Most smaller publishing houses have now been swallowed up or have cut exclusive deals with larger ones. The pext generation appears to have marked more than just shift from 16- to 32-bit.



AMMA Show

a JANMA (the en) held its own trade show. The w provided a further

eground for Namco cwine a Virtua Cone sheeter and Sega meting Sky Target, its rburnte-ish answer to ce's Air Combat

No sign of Ultra 64 or tva Fighter 3. Shame. Expect the complete ow report next month. t is the meanwhile. ere are some big









PC Magazine called the Farte

VFX1 HEADGEAR™ Virtual Reality System

"the coolest peripheral you can buy for your P

and hear, and feel --

far yourself. Try ane aut at any incredible Universe stare. Or call for the retailer nearest you.

• THE MOST IMMERSIVE CONSUMER VIRTUAL REALITY SYSTEM

SUPPORTED BY MORE GAMES THAN ANY OTHER YR PRODU
 HANDHELD CYBERPUCK\*\* CONTROLLER

VIP" CARD SUPPORTS UP TO 125 PERIPHERALS
 PATENTED QUICK-RESPONSE HEAD TRACKING

COMFORTABLE ERGONOMIC DESIGN

◆ FUP-UP SMARTVISOR®

AT BIRTH, YOU

FEARLESSLY STUCK YOUR HEAD INTO A COMPLETELY UNKNOWN WOR<u>ld</u>.

DARE YOU TO TRY IT AGAIN.

BUILT-IN MICROPHONE

HIGH-FIDELITY STEREO HEADPHONES

. ONE YEAR WARRANTY

WINDOWS® 95 COMPATIBLE

For IBM PC compatibles.

tox (/ list 202-1633)3
America Online\*: Keyword: FORTE or VE CompuServe\*: GO FORTE Internet: SALESSIFORTECH.COM.





## **Electronic** giants It looks like peace

may break out in the hip battle for the next generation **CD-ROM** format

battle on

he two bitterly opposing camps of the oneoing Digital Video Disc format wars now seem ready to talk to each other. The main players are Philips and Sony, the inventors of the CD on one side with a system called Multimedia CD (MMCD) and Time Warner, Tophiba, and Metsushita (the world's langest electronics company, bast known for its Parasons brand) with Super Density CD (SD) on the other.

Good Humor sed him that if two og with two nt ideas, they ly came out with five ones. Without a "That is simply not

rt with at least 20."

MMCD has a capacity of 3.7 GB and SD a canacity of 5 GB. Both offer double layered discs with around double the capacity. Both are promising recordable technologies in the future. SD uses two thin discs bonded together while MMCD uses more conventional technology, MMCD says SD will be more expensive, and the other side says it will not. The arguments continue.

And while the technologies were originally very much aimed at the living room, as a replacement for the prerecorded video cassette, it is the computer industry that seems to be the one that's banging some sense into the companies' heads.

The buggest aspect that has changed is that the computing community has said both formats are great but the one thing they cannot have is a format war in the CD-ROM



x conflict that placed a drag on the growth of the video business

marketplace - that will kill the market stone dead. In April five computer companies -IBM, Apple, Compag, Hewlett Packard, and Microsoft - formed an ad-hoc group to make requirements for the

computer industry and on August 14 issued a cress release saving that both technologies met almost all of their requirements, with a few exceptions,

"But since there are still two formets instead of a single unified proposal," the press release reads, the first of the experts'

recommendations - that there be only one format - remains unfulfilled."

Overall the two systems

have more similarities than differences, but up until now neither side has been willing to compromise. That was until the big International Funk Ausstellung consumer electronics show in Berlin in August. There for the first time Philips sold it had written to the SD camp suggesting discussions Henk Bodt, executive vice president of Philips Electronics, said everything was up for negotiation. For the SD camp, Warren Lieberfarb, president of Warner Home Video - when asked what was the most important part of the SD technology - answered that he wanted to preserve in negotiations a single format." But the buggest ditemms is how exactly to reach an agreement in time.

The SD camp has been adamant that it wants to launch in the middle of next year, MMCD say it wants to launch before the winter holiday, although there are now rumors that it plans to launch first in Japan in late 1996 and the rest of the world in 1997. In any case, there are some very serious regotistions still to be done and a single format is fixely to take months to arrive.

If the discussions carry on in the good humor with which they started, it is just possible that the SD group will hit its launch deadline. But the engineering lead time for such a new and sophisticated product Is considerable,



## COMPUTERS WILL NEVER BE THE SAME AGAIN.

Remember what follow games were like below Segor Meither do we have coming to your computer. Articlely, if the following youngut. This has be Perstain's processor's speed and Windows' 55's computability, If Co town family resched he level it takes to use pube-quick-ening, adminished pumping Sego games. And with more vides, high-re-resolution graphics and better annuation, the games are even better in the PC format. You already have a bot computer. Now feel if the hotsest games.



e into the high-resolution phies and improved animais on ecco THE DOLPHIN.



one blests you with high-speed combat a can deliver.







SEGA" DC

## But why are there so few at launch? And where are all the rest? A NEXT Generation report

ner old state

Games Towns

nally complicated PC Interface

## The first Windows 95 games arrive

or years, the PC has occupied a curious place in gamina. On one hand, the PC's versatile power and the wider control options of the keyboard have enabled more complete and complex games than the consoles. At the same time, the difficulty of actually getting PC games

to run has kept it from achieving mainstream gaming success. Now, with the introduction of Microsoft's Mac-like Windows 95, all that has changed. Win 95

features new casy procedures for hardware, and, more significantly for game developers (and players), a new games SDK (Software

Development Kit). The SDK consists of five application program interfaces:



metaphor at Microsoft's Game SDK development group has carned over into other names, too -Direct Cafeteria, DirectParking Lot. etc). DirectDraw enables writing directly to the VRAM, inside a window RealityLab is a 3D polygon rendering engine. DirectSound offers reduced latency (under 50 milliseconds) and an excellent mixer. Direct Input, perhaps. the greatest advance, finally enables. PCs to support digital joysticks. No longer will accessory manufacturers have to cajole companies into writing drivers for their products - as long as

they include a Win95 Directinput driver, their devices will work with Win95 games, Finally, DirectPlay offers easy network support, over LANs, modems and the Internet. The APIs should eventually let

\$3000 PCs play games as well as \$300 console systems, but Microsoft is "not looking too closely" at the first crop of games bearing the Win95 logo. According to one developer, "If you're NT compatible or use WinG, you can not the [Win95] loan Idisplayed on your product packaging]. So a lot of



you're taking a risk with ship cycles." Reaction among developers

has been mixed. "Our dame couldn't have been written under Windows 3.1," seid one developer. "We couldn't get the performance we needed. We took advantage of DirectDraw, DirectSound, and DirectImput APIs." Others are not so sure. "I know a lot of people who don't want to bother programming Windows because of all the overhead of the system and the SDK. They're all going to move to consoles, where you can access every bit of the machine," said another developer, "As a game programmer, personally. I like to access everything, know how every bit works. Now we're gaing to have to gut our stuff into a black box." It's kind of disconcerting to have that control taken away from

you. I've never used an SDK before, and I wish there wasn't a monopoly on this. I wish there were other options." Others are concerned about the high system requirements needed to take advantage of Win95 games "They ser it's optimized for high powered systems. That's kind of a loke," said

one long time games programmer. But overall, Win95 promises to solve a lot of problems that have pleatured the PC since the beginnings of DOS. Gamera should simply expect a host of sub-per games along with the gems as developers prove their years of coding experience over to a new platform.

to port Plansitation titles to Wind



Macworld 95 he 1995 Macworld Expo as not the place to go if p're looking for hot w computer ga eld in Boston, MA, th ocus was on producti twore and new

ire, not games Still, the most ive game on show was Galagages, by Anark. In this third-person discases. It's a lengths ocess that involves

Parsoft demonstral 4-10 Attacki, a very attractive flight simi turing the ugliest of all aircraft, the A-10 nk Buster" Warth

es, set on the ill-fated se ship. In this game, igers and solve

cworld, Harac, w oth VR and network tible. The game es with a duplicat CD so that on clash right out of the







## Siggraph 95 shows off the new graphics technology for games of the

future

## Siggraph looks to graphic future



SIGGRAPH



uph demonstrates the graphics tools of the future. The video game fry widely regards it as one of the most important events each yea



celebration of computer graphics. Silicon Graphics (SGI) predictably had the largest stand of all, its corporate presence has rised dramatically since the merger with what is now Alias/Wavefront. At Siggraph, it announced its vision of the future: Project Maya, In what will be one of the major initiatives of the next few years, SGI's aim is to reinvent computer art. The crus of this initiative is to integrate all the disparate standards and return artists to a natural environment conducive to work. Rather than struggle with interfaces and mice, the artist will be enabled to draw neturally and use the computer as an accessory. Key to this quest will be Alias/Wavefront, and the latest incomption of PowerAmmetor software was on display with a reel of

or five days in August the Los

Angeles Corwention Center

plays host to Siggraph, a

footage demonstrating its power. Nintendo, SGI's Ultra 64 partner, was also there by proxy. A completed Ultra 64 motherboard running a smooth flight sim graphic demo was on display at NEC's booth, NEC's

involvement is linked to the Rambus memory subsystem used by U64. High end areade companies fought it out to win the title of the best IG. Digital's new AlphaStation was operating with Evans &

Sutherland's Freedom Series IG's to great effect. The large tiered stand enabled people to play and race together although it's unlikely that you'll ever see one in your local arcade. More realistic a proposition is VWE's BattleTech multiplayer game.

Motion Capture was one of the fastest growing exhibitor fields NG 101, with Motion Analysis' optical system given a public work out every half hour. The technology is already relatively mainstream and quality lowish cost magnetic systems like Ascension's Flock of Birds can only

accelerate this trend But perhaps the higgest new entrant to Siggraph was the PC Autodesk upwilled its latest version of 3DStudio, and since the takeover by Microsoft, Softlmage's rendering products have been migrating to the PC. Its superb animation software could theoretically soon grace household PCs. But in case you can't draw or don't have the time Viewpoint DataLabs specializes in modeling objects for olients. Its database now stretches to thousands of objects ranging from flies to buildings. During **NEXT Generation's visit one** 

programmer from Origin was shopping for a new spaceship. But the highlight of the show was the Electronic Theater, a collection of 75 pre-rendered animation cels ranging from the bizarre to the awe-inspering Those who said computer graphics could never compete with cell art were forced to eat their words. In just 10 years electronic visualization has progressed from crude sprites to entire films made from 0s and 1s.

Where will it be in another 10?

## Sega's PC

games arrive As resorted in NG 10 Seea has set un its own PC publishing division. It has also cut a deal with WVidia, a multimedia accelerator chip manufacturer, to include versions of VF Remix and Parzer Bragoga with hardware containing its chips, such as Diamond's EDGE 30. Here are some













# "ONE BONEKEAD CALL AND THIS



GOODESS GETS
A MILLENNIUM

IN SOLITARY."

An Experience from the REAL 3DO Zone", Johnny "Torso", FL



"South's have a brain in the ald cocount to play this one, they this airt no caleculat. While talkin injury scalegor hant for three gons. This down and power in the cale with the same three gons. This down all power in the goodless is abin once comion have there. Show it and the goodless is abin once comion have these. Show tooling, power to the goodless is abin once comion have these shows the goodless is about the same shown that the same shows the s

Come scrious hard time. Brain-tusting, puzzles, Killer graphic Finkly Earth, Wind & Five times. And a mell-presented 5000-year-old goodless in distress. So what are upu cloin' tonite? Adols, Chickie."











NEXT

## movers & shakers

A monthly look at business news affecting the gaming world

Christopher V. Sharmen is the aublisher of MMWIRF, the leading daily news service on the business of interactive entertainment, MMWIRE ONLINE can be found at http://www.mmwire.com

by Christopher V. Sherman

## IS SEGA SWEATING OVER SONY?

N E W S L I N E : As Sony launches the PlayStation, rumors continue that Sega and 300 are talking about some kind of deal. BOTTOM LINE: NEXT Generation has confirmation that senior lavel officials at 300 and Seria Enterprises are indeed talking about some kind of deal (as reported in NG 9), though It is unknown so to what shope it might take. Sources sey the deal is not imminent end a range of possibilities ere being evaluated. At the time of going to prese, well-placed sources coy Sega has sold only 60,000 Saturne in the

### US (Sega officially claims 120,000 units). Sony sold over 100,000 PleyStations on day onn. RDCKET SCIENCE ADDS NEW FILEL

N E W & L I N E : Rocket Science Cames has formed a new publishing division, StarHill Productions, with the distinct charter to publish third party products

BOTTOMLINE: The darling marriage of Hollywood and Silicon Volley has had a tough go of it. Steriilli mekes sense because it leverages Rocket's established distribution channels and reaches a demographic beyond the type of players that policy Rocket's action sames.

### CREATIVE DRAWS 3D LINE IN THE SAND

N E W S L I N E : On November 1, Creative Labs Inc. introduced the 3D Blaster (\$349 PC). a graphics display card with hardware accelerated 3D rasterization, which is based upon the GUNT 3D processor from 3Disbs Inc. This 30 Bloster delivers 640v480 regulation by 16-bit color at 30 frames per second (fps) and Creative has Incensed Criterion's RenderWare

BOTTOMLINE: It's do or die time for Creative. The creator of the Sound Bleeter eudio line has seen earnings shrink in recent quarters

device driver for 3D Blaster.

as the upgrade kit merket dries up and newcomers outh as Diemond Multimedia evel market share. The business plan calls for one million units sold worldwide in the first year, Officials say 20 to 35 titing are schaduled to be on shelves for the holidey season. An initial eix stemes will be bundled with the cerd at launch.

## VIACOM PULLS OUT ITS WALLET

N E W S L I N E : Viacom New Media has taken a minority equity investment in Looking Glass Technologies Inc. Additionally, Viacom says it will sell Spelling Entertainment Group Inc., but will acquire Spelling's interest in Virgin Interactive Entertainment Ltd, the multimedia software unit that Spelling acquired in the fall of 1994.

ROTTOMLINE: Viacom was one of the early investors in interactive entartalement with its acquisition of ICOM Simulations savaral years ago. The Looking Gless investment is the first direct Interactive investment Viscom since the ICOM days. The key Looking Glass asset? Its 30 capabilities. Don't expect to see Viecom doling out meny more videogame licanses to its properties with this kind of production power in-house. Looking Gless already has dibs on the "Ster Trak: Voyagar" property.

## ARISTO JOINS THE GAME

N E W S L I N E : Aristo International Corp., an investment group with ambitions to become a "player" in the videogame industry, has completed the purchase of videogame development house Borta Inc. for \$10 million in cash and Aristo

BOTTOM LINE: Aristo hee got millione more in its nockets and is currently shougher around for additional investments. A closer look at the Borta acquisition reveals that Ateri founder Noten Bushnell resides on Borto's board of directors. He'e there for a reason, too. Borte le developing several products for Bushnell's new company which are expected to be released later thie fall. And who is looking at backing Notan's new company? Aristo, of course.

### The great Ultra 64 giveaway The revelation that the finished Ultra 64 will be

on display at the

Famicom Space World

(Shoshinkai) show on November 25-26 is as anything that has merged from the mp since the ibit sana began Promising that 100 on display with ten rrable games mear at the machine is now all but certain to be surched in Japan in comber - as Hire mauchi hinted to the nese business aress in early Max. indo has also anced it will give tes the chance to rits and 300 games on reletion of a raire at the ow. This implies that ere will be three names w to coi ide with e launch in Japan, No is have yet emerged bout which games they me clear soon. A

## "ONE BALLZY MOVEAND





SIDEWALK."

An Experience from the REAL 3DO Zone, Tony "Two-House", IL

## The Director's Cut



\*OK, I was desperate. On my kneez. Beggin' and pleadin' for mercy. Hey, I'm no wass, but that neanderthal Kronic is tee-ing off on my skull But now I gear it up and bust into my acrial attack and super-cool morph moves. Next up Boomer: But now this clave is aloin' the grovelin'. This is avena combat. Rude, masty and in-your-face. And this director's cut left

nothin' out. You get it all "I'm outta" here. Peace." 🐚













## Arcadia

Saturn Gets a Moon

Orleans (Sept. 21-23), American

At the AMOA (Amusement Machine Operators Association) Fund in New

arcade owners got their first look at the long promised "Titan" system it's

the sister unit (or more accurately, a com-op satclife) of Sega's "Saturn

Inside news analysis from the coin-op scene



Marcus Webb is the editor-in-chief of RePlay magazine, the US' leading trade amusement magazine

by Marcus Webb







through a senes of configurations: super deluxe for Sega's Japanese theme parks; then regular deluxe for US, areades: then software for Titan: and (finally) software for Saturn. However, that strategy could hurt resale values of their trademark big simulators for the arcade market, so don't look for (say) Indy 500 to turn up on Titan, Early US, titles for Titan are expected to include Virtua Fighter Remix, Final Arch (a baseball game). and Golden Axe: the Duel (sequel to a previous arcade hit, featuring mythic



### characters in combat adventure). Checking on Tekken 2 Namco America is out with its Tekken

2 sequel, another system 11 dame which continues the storvine where the original left off, (Turns out the bad guy. Helhachi, survived that final swan dive off a citffi. The sequel boasts. some major upstrades and interious features. Our favorite twist: "timerelease characters." A month after installation, the game will start introducing new selectable sub-boss character at the rate of one per week Three weeks after the last sub-boss is released, the "Main Boas" will become

selectable. A quantum leap in realistic, wwd graphics for backgrounds and character alike is achieved via better proportions, a combination of flat and glow shading for superior 3D impact, and allnew backgrounds (in one setting the "main stage" is darkened while characters are followed by two moving spotlights at all times).

### Another Checkered Flag for Segal

Sega's new deluxe driving simulator is called indy 500 (see page 136), duplicating the famed Formula One racing event under license from the Indianapolis Motor Speedway. An upgraded "CG model 28" graphics board is combined with a wide-vision monitor of more peripheral vision (exclusively developed for Sega). Achieving a sort of "forced perspective effect" via wide angle graphics, Indy 500 enables you to see other cars coming up on the side, jockeying for position, competing for strategic openings. Texture-mapping photorealism, overlaid on 3D polygon objects, really puts you onto the Indy 500 raceway (you can choose two other tracks for variety). Graphics features include Sega's familiar "zoom lens" option and "viewport" at the touch of a button, players may jump back and forth among several different perspectives on the action at any time during gameplay. A brand-new interactive steering program lets players feet the pulls of the tires as their cars stream around those turns. The emphasis really is on realistic driving skills, too, because players don't select from among a variety of cars. Instead, all players start with automobiles of identical performance capability. This gives them a chance to precisely compare driving skills.

## Midway Body Slams it

Some time back, execs at Williams/Bally-Midway saw some demographic profiles suggesting that the World Wrestling Federation's pay-per-view TV matches builed a (mostly young, mostly more) audience, of whom 85% are also videostame players. Lightbulb time! Michray's WWF Wrestlemania (see page 191) is the result. featuring nine real-life stars of the professional wrestling world. "We decided to walk the fine line of a game where you whack

on the buttons and have good moves happen for young audience. combined with swirls and complex moves for the older fighting game fan," said project leader Mark Turnell, "Our game includes examplerated fantasy and comedy action, and the now-typical hidden characters, secret moves and other ploys which have proved so successful in the fighting genre. But at the same time, Wrestlemana has got a whole new feel from what's typically been done in a fighting game," Lead artist/game designer Sal Divita worked hand-inbleep with the professional wrestlers, doing pric-driver moves and falls on the wat in the factory's new disitalization studio. (Takes courses, considering that Barr Barr Bigglow weighs in at more than 400 pound). With firwer backgrounds designers could devote more computer memory to smooth, fluid character motion.

Game graphics bear a striking resemblance to watching a WWF match on TV, at least until Donk the Clown suddenly grows a hand 10 times lifesize and begins slagging around his opponent with it. Other characters include the Executioner, Yokzuna, Bret "Hit Man" Hart, the Undertaker, Razor Ramon, Lex Euder and Shawn Michaels. all contraved with their real-life specialty moves, holds and artics, One feature players will love; racking up anough power on the "combo meter" allows you to execute a almost encless string of combination special moves for a shattering climps.

## "I LOVE THE SMELL OF



## JET FUEL IN THE MORNING."

An Experience from the REAL 3DO Zone", Eddie "Ah-Choo", NH

## FORTRESS AT SEA

"I'm pallin" 30 class sea duty on the Card Vinson nuclear aircraft carrier. I can check out the aircraft, Islan to the creve, sit behind the controls Really see what nakes this things fick. 3D graphics, realistic sound, and incredible film clips are all weder on thants. I can even try besin' an F-15.

on this thing. You try bringing, claven a screaming, Tonicat on a postage stamp doin! the hula Hey, it's not just a CD H's an adventine." — HOOK UP YITH YOUR MEAREST 306 DEALER OR CALL: 1-860 332-5368





## JOYRIDING

Gaming on the Internet

was going to write about X?
Sand, the multiplayer (actually, beed to head) game service for Super NES and Sega Genesia systems, but Y've been doing a lot of research into the coline gaming market and, thought I should alsee with you when I've found!

it's the next big thing Resily it is, Everyone's getting involved from smaller software developers like Pagyrus and Domark (which you've read about here), new startups (like DWANGO) to hage media companies like Trine Warner. What does this resear? Well and set this research.

for an ensistight of games that can be played over a network— and if it can be played over a network, it can be played over new on lans services like DWANSO, M Parh and York DWANSO, M Parh and York DWANSO, M Parh and York So it should come as no supplet this gardes like Terminal.

as no surprise this games tice revision Webcilly and Doon are propring up on these dedicated game services. Just how big is online gaming becoming? Well, it's not huge now, not by console or even PC entertainment/ multimedia market standards, but

by console or even PC entertainment/ multimedia market standards, but everyone's looking this way. Opberspace is the finel frontier for making morey on computer games, a vast sunsupplead territory filled with millions of 'Net dehizens — each and every one a potential customer.

I write this on the eve on the Sony Pleystation roll out at the Sony Building in New York City, after having, phayed a little Virtue Righter on my Sega Saturn and the question that strikes me is, where do conside gardes fit into the cellula garding explosion?

I'm not sure that they do, yet; not in their present form. Mintendo has been playing with satellite and telephone line sink upon of its 8bit and 16 bit handwise for years, but noty over limited Jepanises oftworks; My Sept has a port that fronk, suspiciously line i might be able to mock up a modern there someday (and Sept and the sure of the sure of the sure of the device will be eviralised in Japan sarty most year; I start's Segura supposedly has a modern in the works and 3DO had once planned a modern but now has more important things to worry about [like M2 and trying to keep its tenuous foothold in the excellents 32 bit agrees mirries.]

How do X-Band users, without keyboards, communicate? Very, very slowly — and tediously. Keyboards are vital, and perhaps key to the whole online quastion. They are so important that X-

Bend plans on selling a cheap one, along with its 2400 bps (alow — but ultra low sterny delays) moders.

Communication is where it's at first online garmer, and all on the surfers to begin with. So that makes existing console setups pretty crappled when it comes to getting on-line (communication) entire with the context to getting on-line (communicating on-line with a lowest is compressible to

Communicating online with a joypad is comparable to trying to wall-paper a house through the mall slot

trying to wall-paper a house through the mail slott. No matter how many polygons your Playstation can puts, a lowly 286 (or 8096) machine can type a lotter a heliure lot faster than you can. Which brings me to the point that may get me lots of fast from my fellow address at NEXT Generation and masks aome of you.

I've gotten some e-mili asking me what I thought was the ultimate on-line gaming nightform Searts? The IRM SC compatible - or maybe I should call it the Intel x86 competible. Why? It's a question of hardware. First, let's start. with the 28.8k v.34 modern, Just about the fastest speed an analog felephone line can support. Sure, the TV has cable with much greater throughout, but don't expect your cable network to be upgraded to two way communication anytime soon. The PC platform is maxixed out right now with the Pentium 133 Mbz. but look out for Cyrix's M.S. the first real competition to the Intel super CPU to



Bernard Yee has contributed to USA Today and writes regularly for PC Gamer, PC Magazine, and has written several books on samural

by Bernard Yee

arms, (AMD will follow too, but Nex Geric SSB was a bost). Pos was getting started at a dizzing pose. Sound? Thy statement at a dizzing pose. Sound? Thy statement to a wheretable Relation, smalled to a SoundBlester 16. Great digital sound and statuse. (54 take an NFC as-speed OPROM drive over the double speed units in the Playstation, 3D0 and Saturu any do. Goos of hard drive storage and system inamony. The only area consoles have it over, the PC is graphics, but with the new 3D inleyar was graphics acceleration.

memory, the only area consistes have it work the PC is graphics, but with the new 3D hardward graphics accelerators (Matrox and Dismond will be first to market) that won't less either.

Why is any of this important to move cataback and forth and reade competing.

environments for us to play in. The hardware lets us do n, and the middle lets us talk. The PC is great for creating a complex environment for us to play in you and I. Heil, Virtue Papter and Joshindon are great, great games, but their multipager aspect is best enviroled by a friend in the same room. Sid Mileir's Collivation or

Addissands Schedinger 29 Nos waite getting somewhere. Russing 19 Nos waite getting somewhere the proposed on the Russing 19 Nos waite getting 19 Nos waite getting

These are sechisticated enriforments, and they aren't russing on a Saturi. Heck, even Smittenies and Time Warner's joint project Mode. Operand, a member reystery game, is fully text-driven. And their requires a keyboard. As Serry Sacrola mgbt have said, what a long, strange their time!

will be multiplayer ready

BernerdY@pipeline.com .
BernerdY@eot.com .
75300.3625@compuserve.com .
OucstBuster@reis.serie.com







"Laura's not so luckey—she's got to live the nightmore. And I'm living it with her. We have to find out why her father went bersenk and blew away a hospital full of patients. Or how to escape the moving, wall of spikes that's poised an eyelash away from her face. The lifeless bodies littering this place aren't giving any answers. Graphics and sound so terrifying, I got my back to the nall and the doors propped shut. No sleep tonight. See you on the other side."















ONLY THE BEST ARE GRANTED SUPER POWER MOVES!







E. HONGA'S HUNGRED HAND SLAP-





JEAN-CLAUGE VAN GAMME IS COLONEL GUILE!!!







Riss your butt good-bye when you take to the streets in the toughest street fighting game ever! Featuring never-before-possible attack and super combo moves, plus full motion video and digitized characters straight from the movie. Street Fighter: The Movie." The ultimate street fight begins!



CAPCOM



SEGA

**A**«laim



### by Mark James Ramshaw

As the hand-held market attempts to catch a second wind, we take our monthly freefall into the ever evolving world of the development community



t's been a long time since portable videogame systems were the center of attention, but with the ballyhoo over Nintendo's Virtual Boy and only/No over manning is to teal any two announcement of the sub \$200 Genesis-compatible Nomed hard-heid from Sega, it seems a revival may be in order. The question is do we, the 32-bit super console fixated

Consumers, which can't be possible down with or finance to a con-ception for the control of the

yed on a table1097.

But, though the Honnad troats full Genesis compatibility of conhections for TV and an extra joypad (efforthet) while it is a supercedular to the supercedular price manns it it practically go hand to-hand with the orostock. As Sony's Dandhes Scholes points out. If typo'r no constock. As Sony's Dandhes Scholes points out. If typo'r not ground \$200 for a Hornad, then you may as well pay a fits more and hay yourself a Playstation." And as In

## **Date**book

October

Autodesk University, October 29 to November 2; San Francisco at the Mascone Convention Center, Open to public, this conference provides classes on multimedia topics, a broad range of CAD tools, and techniques enabled by AutoCAD and its related applications. Special events includes the first annual "Planet Studio" Multimedia Awards

and Electronic Festival. For more information call: (415) 905-4994. Fall Internet World on October 30 to November 2 at Roston, MA. This show is open to the public and is set up for individuals seeking to take advantage of the global commercial info infrastructure. Exhibitors will include software developers, game developers, network administrators, information designers, webmasters, and many others. For information call 1 (800) 632-5537.

November Fell VR World is from November 28 to December 1 at Boston, MA, at the World Trade Center, This show is open to the public and is the

largest exhibition devoted exclusively to VR products and services More than 80 leading VR software, hardware, and marketing companies will be available to demonstrate their products aimed at the arcade, entertainment center, amusement parks, home. architectural, medical, and design industries. Call 1 (203) 226-6967.

December Home & Family Computing Supershow appears from December 8 to

10 at the Dallas Convention Center and December 15 to 17 at the Moscone Center in San Francisco, Open to the public, this show is designed to provide an easy way for families to learn about computer and other high-tech products that emphasize education and entertainment. For more information call: 1 (713) 974-5252

January Winter Consumer Electronics Show (Winter CES), on January 5 to 8 at Las Vegas Convention Center. This exhibit is not open to the public. Winter CES serves as a showcase dedicated solely to consumer electronic products that is the starting point for a portion of each year's industry business. Approximately, 1,800 exhibitors of industry manufacturers, retailers, wholesalers, importers/exporters. distributors, press representatives, and other industry members. For information call 1 (703) 907-7624.

Internet World Caneda '96 on January 9 to 12, 1996 at Toronto, Canada. This show is open to the public and is set up for individuals seeking to take full advantage of the global commercial information infrastructure. Exhibitors will include software developers, same developers, network administrators, information descripers webmasters, and many others. For info call 1 (800) 632-5537.

enals to DATEBOOK, NEXT Generation, Imaging Publishing Inc

## **Back** Issues

NEXT Generation is 10 issues old. Make sure your collection is complete, before copies sell out. A complete set of NEXT Generation manazines is on involveble resource to envisory seriously interested in the wor of computer end video games. Now is your chence to complete your collection











- talking. An interview with Trip Hawkins (President & CEO of The 3DO Company) + of hardware. A comprehensive, in-depth look at all the past generation systems ag special: The Violence Topes. Four of the world's most controversal game developers in one virtual room
- talking Shippru Meyamoto (creator of Mario, Donkey Kons, Zeide, Pilot Winstell, and hardware Setum: The complete story so far ng special: Gaming on the information superhighway (aka "Joynding") ing special Revival of the Pittest. Just why is retrogerang so popular?
- talking Tem Krimske (President & CEO, 90A) ing hardware: Does PlayStation live up to the Invoc? ing special: What's wrong with the PC? (Part one).
- Con gaming on the PC survive? ag special: Making tracks (the noble art of same music") ag software Virtua Fighter: Saturn's fighting chance profiled NG 4 taiking. Notice Bushnell (the inventor of Pong, and founder of Atari) ing special. Atari: from boom to bust, and book again. The complete history of the oldest videograms company in the world ag special; An audence with Guspel Yokou, the inventor of Nintendo's Virtual Boy and Gamelloy ng special: What's wrong with the PC? (Part two). Where is the PC game scene heading?
- talking. Steve Race (Sony Computer Entertairment's former president) ing hardware. Ultra 64: the story so fix, Nextendo's 64-bit colleboration with Shoot Graphes is shroused in secrecy. A 13-page exposit. Applie: The Ripe Stuff, The story behind Apple's new garre machine, the Pipple













- talking. Pater Molyamus (Bullhos's leader and possibly the smartest our in coming), are hardware M2: 300 hites back. On paper Tris Hawkins' M2 is 10 times more powerful than the PlayStation." But can 3DO make it work? mg special PlayStation's Disciples: A look at how PSX games are made
- telking. Sem Tramiel; Aten talks back (Aten's President & CEO) ing hardware 3DC: Past, President, and Future, What has 3DO achieved so far, and what does the future hold for Trip Hawkins' vision? ng special Electronic Emertainment Exposition (E\*) — the definitive show report NO 8
- tailing. Howard Lincoln: Why the hell has Nintersio delayed Ultra 642 ag hardware Sega Saturn: What the TV commercials don't tell you...NG second Japanese RPGs: corning to a game machine near youring software: Previews of PlanStation's two-player link-up.
- talking. So which 32-bit, system is Electronic Arts betting on? An interview with EA's VP Bing Gordon ing special. Reality Check: The Future or Virtual Reality — a full history, update, and thorough analysis of the state of VR; ag hardware: Saturn: Sega's battle plan to attract developers
- is this the end of FMV as we know it? An interview with Tom Zito, president, Digital Protures on special Do videogames screw you up? An indepth look at the issues and solutions surrounding the strains of videogarning; ing hardware. Motion Capture: a report on the newest wave of capturing

### NEXT Generation Back Issues (US Only)

Back issues NG 2, NG 3, NG 4, NG 5, NG 6 A NG 7 are \$4.99 + \$1.50 delivery per issue, • Back issue NG 3, the Premiere issue, is \$7.99 + \$1.50 delivery. Please Mail Check to: Imagine Publishing, Inc. • Back Issue Dept N695 • 1350 Old Bayshore Hwy, Suite 210 • Burlingame, CA 94010







## Subscribe today and save



over 50%

Call us at 1-800-706-9500 or NGSUBS@aol.com. Have your credit card information available. Only \$29.00 for 12 issues delivered right to your door each month.





Offer good in US cells. Please allow 4.5 weeks for realizing of time bout Canada: \$455.43.00 Encludes GST? Provider \$455.53.00. Prepaid to US for

-

Hit pedestrians,
outens police cars
and set gunned
down in a drive by
shooting.

that shows what

Lillio CEAHY INE.

A page (All 11 to come any page (In dimension while second to the page (In dimension and In dimension and Indian and Ind

The control and the sould be paid to be a control and the cont

more there. I take not the third bury little day on convering the serial. More than take



### PlayStation ...











Whereas game graphics and sound continually improve, the ways computers actually play against humans have changed very little. NEXT Generation talks to developers. about pushing game AI to its limits, and how the real trick is teaching computers to play dumb



hat is Artificial Intelligence (Al)? The term may conjure up images of Arthur C. Clarke's HAL or William

Gibson's Wintermute, but the reality is quite different. Marvin Minsky of MIT provides the best definition in Margaret Boden's book Artificial intelligence and Natural Man, calling it "the science of making machines do things that would require intelligence if done by men." If you have ever played a one- player same involving the defeat of enemies, you've faced

an Al, however rudimentary.

The origins of Al closely parallel the development of the digital computer itself. Names tike Alan Turany and John von Neumann, early computer pioneers, also developed early theories of Al. It was Turing who developed what is considered the seminal test for a true artificial intelligence. Basically, the Turing Test involves a human conversing via teletype with a computer and a human. If he or she cannot tell which is the computer and which is the human, we can say that the computer is, for all practical purposes, truly intelligent. Researchers have laid foot on many avenues in the quest to build an intelligent machine. Some

favor simulating a neural

### CHECK MATES: Chess Games

ames have been the central focus of AI researchers' interests for decades and started programmers on the quest to create better ims for the purpose of gaming. Early chess (mid-1950s) programs were created by traditional AI scholars as hasic projects and played relatively rly. Once functional AI had been attempted, ma an to work on the problem in earnest Greenblat created MacHack, a program that enables the computer to choose its moves from a select list of moves that look successful in particular situations. The program was far superior to anything that had been attempted presinusly, and it introduced the concept of chess computers to a

whole new group of enthusiasts In the early '70s, the Association of Computing Machinery (ACM) added a tournam

between chess programs to the group's yearly gatherings. From here on in, rewards for innovative chess programs became mostly financial. In 1968, David Levy issued the first major computer chess challenge, betting that no computer could heat him in chess for the next 10 Levy. Companies entered the act, too, with their non research. Edward Fredkin, a MIT professor. offered a series of three different prizes, one worth as much as \$100,000. Two out of the three prizes were awarded to Belle, a chess computer capable of procession 150,000 chess positions pe second, in 1983; and to Oreo Thought, which

interprets 700,000 moves per second Chang-ki Wei-ch'i Educational Foundation has offered \$1.6 million to the first AI program to eat a master of Go, another tradit game. This shift in focus centel spell a whole new way f interpretion the human mind, and may ect similar names in the fature

### ng special



### AT GENESTS:

### God Games

I's one thing to create a set of apparents who poly have to emulate hullian security.

contines of a board game, but to create a have to emulate human behavior within the believable universe in which human-like characters walk round, react to circumstances around them, and, in a tages how turners is much mass difficult Most "not comes," like Parulous Sim City and deminerant unable stages to interest with a computer world that corries on by its own rules whether or not the player actually does anything."What we're trying to simulate is what a placer would do without making it seem so esoteric as for you not to be able to predict what would hannon," says Peter Moleneux. tounder of Builtrog. "For example, in Dungeon Keeper, each character now has the major senses that a placer would have So each at these All characters can see, bear, and even smell. They can realize when they are in danger and threat, and they can feel Atoned. By combining those attributes you can watch a character move and walk around the

why he took that left turn there because corrider is dark, and he's beaten up and

wa're softling in something that you, as a person, can appreciate and understand as the problems that this character has

he's atraid to

throughout the same? This will make a have difference in the way human players interact with tuture games, and in some ways these names may eventually be realistic enough in their response that to some degree they will appear to pass furing test. If, as a corner, you can't tell whether the ayer characters in a name are played by humans or by the computer, then one at the biggest goals of videonaming, the sespension of disheliet, will have been met, not through the use of more realistic graphics, sound, as control, but through the creation of more realistic reprodities and Dieterms Melyneus continues to recoult the hest and brightest students from too universities in England to make sure that Builtreg pases the road rward in gaming artificial intelligence

network on a computer Others have tried creating programs that approach istelligence symbolically or by following a simple set of promode rules Deseire hie promises

Turing developed a chess-playing algorithm that, (researchers would pass the

> one of the most advanced examples of artificial life

Consider the difficulty inherent in a computer understanding something as simple for a human as the different connotations of the word "Take" The code needed for a computer to understand the differences between the ohrases "take a both, take a hike take a dollar" and "don't take that from him," is not trival, to say nothing of the many other ambiguous words and phrases in the English language. In order to make computers seem intelligent to an average observer, massive amounts of data are needed and even data enery can be a

in the 1950s

predicted a

machine that

Turing Test by

1960), the quest

for Al has made.

at best limited

progress toward

the ultimate coal

of creating a true,

thinking machine.

just introduce information into the program, or should you design the computer to learn facts for itself? Al's greatest successes are not in attempting to make a computer intelligence that can function in the real world, but rather in total domination of a alphanumeric character

problem. Structural decisions

need to be made. Should you

single problem, whether it's recognition - without Al, we'd have no OCR (optical character recognition); a-rules based "expert system" that can answer questions or solve problems involving a specific topic, like how to diagnose and treat a blood disease or fix a

typically, he used without a computer; and chess has subsequently continued to be a hearthmark Al exercise (see sidebar, pr. 37). But the first

purely electronic game that most people associate with Al is Adventure, and it's more famous progeny, Zork Although the All of the rame wasn't incredibly advanced. "we knew our environment and created our environment instead of trying to do something really complicated like teaching a robot to climb stairs," says co-author Dave Lebing. The game's sentence parser, which enabled the user to interact with the game in phin Enrish sentences instead of two-word commands. literally stunged the world Here was a game that

interacted with you nearly as well as a human. Covered prominently

in the popular press, Zork brought electronic gaming out of university campuses and into the public consciousness. In fact, games are one of the few means by which Al has made it out of the lab at all. "It's probably been the



car: or total domination

of a limited virtual world

with pre-set boundaries. Ike.

for example, a game.

most lucrative use for AI," says Lebling, "But I don't think what is being done in games is arrowhere the stateof-the-art in Al. Developers have taken the state-of-theart and pared it down to what you can do rapidly in a eame and what you can do feasibly in a real environment. Videoesmes are kind of the domestication of academic Al."

As with any other

form of computer logic, Al breaks down to a series of mathematical computations in the end. Each decision the computer makes is based on the current value of a given set of registers. The tricky part comes in deciding how and when to look at those registers, how they interact with each other, what happens when they reach a certain value, and keeping track of the entire mess while still running the rest of the program (all of the video sound and input devices) without ruining or altering the performance of the overall product.

In strategy games or RPGs, registers take the form of different human-like characteristics, like fear, a value that will determine how likely



Sid Meler's Civill

the fee is to run from a battle; aggression, how likely a foe is to attack without provocation; and even loyalty, how likely an ally is to out him or herself into

danger for the sake of another, Some RPGs also need to keep track of how a given NPC (nonplaying character) feels about the

player, which is also handled by a set of revisters that mathematically represent how likely that character is to help out, based on past interaction with the character. When the player angers the character in

question, a specific value for reaction is lowered by the amount appropriate for the prestive action — a few points for being overly curious, many noints for killing his mother.

The next time the player comes in contact with this character, the base percentage chance that the computer will help the player out is modified by the reaction value, and a decision is made. In this wax, the computer is still able to represent the somewhat random actions of humans while maintaining a tie with actions of the past - a character you have made angry may still help you, but is less likely to do so than if you had

been kind.

Lifelike personalities can be emulated by careful determination of what actions

cause what changes in value --- a gruff old man may appreciate you being belligerent to him, whereas being overly kind may make him think of you as a sycophant. The more values there are to be checked, the more lifelike

and threedimensional an artificial lifeform can be simulated. Unfortunately. continually checking all of these

values can slow camepley to a crawl, not to mention the amount of time it takes in development. Unlike Al projects in research centers and universities, the goal of these game Als is not to fool people into thinking that they are

### CTVTI T7FD AT: Strategy Games

reade and strategy games use very different hinds of AL Unlike the fast-action decisions necessary for an arcade game or a flight simulator, most gy titles offer plenty of time for the comput shout each of its moves. Unfortunately, all of the or in the world won't help a "stunid" came heat its man adversary. To create a useful challenge, the game oursement needs to create an All algorithm smort fieldble set of rules that will else the computer an lvantage over its human opponen

Farness for pames like Civilization and Railroad Tycoon (two names considered to be among the best in AI), strategy veteran Sid Moior explains how he creates computer opponents worth playing against. "In Civilization players face a banch of other groups

who compete directly. The name designer starts atering the game figure out what what works best - and then things into the All; it's kind of an evolutionary process." In other

words, most strategy game designers have to

raring out a strategy on their own (on pager) that

verks well for a human player. They must then figure out an algorithm that will enable the computer to neight that winning playing style. In a name where you must play against other Al-controlled teams, the mmer must also finure out a way to make this whole process seem human-like in its execution The name Childrelian is somewhat unique in that it creates a peer situation," explains Meler, "You have a

civilization which you're is control of, and the computer has central of other civilizations that have essentially the same abilities and resources that you do, it's kind of like ng a multiplayer game, only the computer has taken fliculty level, we can handicap the AI where it requires more production points to create structures than the planer, or ow the higher levels, we can set it to where it takes less. In this way, we can take one All routine and make it more or less ffective, depending on what the player wants?"



### ARTIFICIAL TURF: Sports Games

e creating attack patterns for a treil ligence for an alien, or troop movement for a Babylonian army, sports game developers mi feal with an authorize which knows exactly how the ers in the game should respond to a given situa ermore, most sports games require the computer to make decisions in realtime, while interacting with nuli from several other onscreen Al players. 'In order to make a game realistic, we tailor each eam to a real NFL franchise," explains Marsh ardiner, assistant producer on John Madden Football '96."The Bills have to be likely to call a

turry-up offense, certain teams will pass more. certain teams will run more, and some teams will run a 4-3 defense while some are more likely be hoose 3-4," he added "Individual At players follow a basic playbeak en you call a play, you're actually calling up a

et of moves for each player to follow it's tricks ecause there's so many situations you have to be eady for During the

lay, the defense reacts to whether the ball is itched or not, and then certain players will run coutes, and if they haven't aiready received a gass, thry will move to get open, ft all works like the real thing.

**Dur latest and greatest** 

hid advance in home Al

vation is to have the computer learn. Actually this is proving a little difficult because the computer can learn protty fast and pretty well, se f think we're going to have to warry about the game being too hard. My timate dream is to have the game look just like the sport I find myself going to football garnes Hom there's semething we're going to



tion, and PC, EA's designers have tri to create a play-calling system that will clearly emplain that of actual NFL coaches

dealing with a real resilistic set of characters with which players can interact.



Independent double foethell Al La nevan Arcade games nke

Doom use a much simpler system of intelligence, but one that also attempts to mirror human response. Monsters that have the character in their field of view will rush forward (taking the shortest path available between them and their opponent) and attack using whatever weapons they have available. To keep this from breaking down into a large mass of demons flooding through the caverns following you wherever you go, the programmers have given the beasts the equivalent of sight and hearing. If you move into an area from behind the

field of view of the monsters contained therein, the resisters that determine whether or not the creatures are currently attack remain off. In terms of normies' bearing capabilities, the game determines the distance a given beast can hear and any gunshots or

screams that take place within that field will force the creature into attack mode. Al in Descent offers a few more tricks. Ike enemies that are smart enough to run when they've taken too

much damage, and opponents

who are smart enough to hide around corners to person, but to create a more sec up ambushes

Military sims such as fileht simulators or tank combat games use sophisticated systems to prevent the computer from knowing too much, and from

being too predictable. If the computer knows the absolute best strategy to win every given conflict, and it follows out that strategy flawlessly, human players will at first find that the computer is impossible to beat (this is not fun) and will eventually find the counter strategy to the computer's tactics and will be able to win every time (this is also not fun). The answer is to create an All that is limited in its decision making to information that lies directly around it, just like a human

opponent. Even though the computer knows that you are hiding around the next hill, the Al for an individual tank must not be allowed to acknowledge your presence until you are within visual range, show up on radar, or

make some sort of sirnal than you are there. After this, the computer must have some sort of random movement and



Moster of Orion requires players to or ie diplomacy with ellen racee cap ble er hateful towerd pleven

combat choices thrown in. The thing that makes humans so hard to best in long runs of any game (including war) is that they are capable of making decisions that aren't necessarily wise. By adding these fights of fancy to a simulation, computers are more fun to play against for beginners because they are capable of making mispakes. and more fun for veterans because they are harder to predict. In Al, the beginnings of simulating human behavior is always

will run out his pattern, and then begin trying to stay open by avoiding any defenders. A safety will stay back and try to stop lone runs, but may not be willing to come in to stop a short one. As in role-playing games, several statistic registers are often used to determine how tourh a player is, how fast they adding the random element.

can get through holes, and how aggressive they are on defense.

Artificial

intelligence is also capable of creating new same senres that players have never had experience with before. Where

better and faster video brought us the interactive movie, a class of game that offers up fantastic images with very little emphasis on gameplay, Al has

the potential to be used in a manner that will create games that are not only fully interactive with the player, but also mold themselves to that person's wants and needs. One example of research being done in this direction is TechMagic's Dogz: Your Computer Pet. Dogz gives the user a pet that acts and responds just as real animal would, within the confines of a

computer world. As with an RPG. Dorz is actually using a complex set of registers to compute how the doe will react in any given situation, combined with a random factor that ensures that the animal doesn't follow static patterns. There's more here than just standard screen saver behavior though, the development team has given the user the ability to reward the virtual per with treats. The

connections between doing certain tricks and getting certain treats, and becomes more likely to perform those acts it knows its master appreciates. Andrew Mover the director on the



nost action games, basic opponent movem is relatively easy to handle. The computer has a set of rules and boundaries that it must stay this. But even though the basic algorithms may be er to create than those in a role-playing game pers must spend bundreds of bours achieving a solid play-engine to deliver competition that is

ther too easy nor too difficult Jasons Alexander the cofounder of Zombio explains the problem "It's really the balance that's decisions of how

bat difficult

You handle that by play-testion something that games and

reactions. Personally, I don't think there's one time out lete names at the play-testing level and it shows in the end result of many companies final products. You can have the greatest idea in the world, but if you don't have the timing down

there are

right, your idea can be completely lest Same balance is a hope problem with action name AL Unlike a chess or an RPG title, there is no

absolute quich way of testing out whether or not provide a solid eing so neod that the game is strating. Other

yeas, this is the Zembia'e new dame Locus

main jeb of the in huse hour counts playing pames, looking to see it computer opponents are too easy to beat, too difficult to beat, or if they have certain repeated natterns that

can be figured out by players When the testers have found a problem, they return to the programmers and minor adjustments are made to the game algorithm to fix it. Now that computer game releases are starties to cost in the millions of dollars, the job of playtester will become increasingly important as the final success of the product hangs on how well the artificial istelligence has been balanced for human interaction



e, and die while ve

### The sports sim uses an interesting set of

conditionals, or statements that let the computer choose from a list of different actions depending on outside stimulus. In football, for example, the computer must first decide what play to call. If it's third down and long, the computer will almost certainly call for a passing play. If it's first and roal, it knows to attempt for instance, the short run. On a very basic level, all the computer is doing here is running through an extremely long set of "if-then" statements tailored to make the same sort of decisions as the coach of that particular team. Once on the field, each of the computer players dog will eventually make begins by following the basic pattern in the play that was called, with additional instructions to react to

circumstances around them as they arise. A receiver

### ng special



### BRAVE NEW WORLDS: Role-Playing Games

resting statistical intelligence for a role playing word in a union development product. This is due to the heavest market of information playing particular that is the secondaried district that can be encountered into all particular that in the case to encounter the company of the company

with bins, had the is they stated with binshi, combin, and control of the NPC.

Combin, and control of the NPC.

Intelligently through a small for binship through a completely 19 and to as under for binship through a completely 19 and to as under for binship through a completely 19 and to as under for binship through the complete. They had been seen to be they and they are the complete through the complet

Spoleto, is not there because this is an action name. "In an RPS like Daggerfall, we started acrocomically. Combut is certainly a port of the RPG exterience, but our first priperty was to create a dynamic world that changed, grew, and developed. and that the player could influence with his or her own actions. We created a political faction system and set up the rules by which it operated, as well as the effects these inevitable changes would have in the same world. Then we moved down to the ival people and designed their AT characters re similarly to a shorter — only with some additional actions and rules, because RPG encounerts re supposed to be more multiplimensional than shooter apponents. In sheaters, you can assume that every opposent has a ferocity of 100%.



In order to create a realistic world for player to explore, Bethesdo's designers have world hard to create life-like conversation systems in their newest title Daggertal/(see p. \$2)

project, explains "It's real Al. If you quit giving treats for certain tricks, then the dog will start trying to do

dog will six other things to get tricks." The game will also include mood swings for the dogs, which will make them more or less likely to want to play certain sames on

"There are waveforms in the programming that we

poll to get moods, the dog can be happy one day, grumpy the next day, and is affected, in part, by events around them." While this is not a game in the traditional sense, the basic idea behind the program opens up all sorts of possibilities for new game-like titles. Imagine a version of SmCity where each individual in the city works out a daily life, affected by poor work conditions to be more likely to riot or commit crimes or has an urge to personally run for mayor, or even competes with others for contracts on public buildings

The possibilities for the future seem nearly endless So where's it all headed? In spite of terrific advances in processor speed graphics, and sound in the past few years, game Al seems, for the most part, locked in place. Bullfrog's Peter Molyneux explains part of the problem. "It's an incredibly tricky area. If you look at all of the developments in the computer game industry in the last three to five years, they've been mainly in the graphic area. We've got some amazing texture-mapping routines and some awesome Gouraud shading and they're extremely fast and that's great, but what are we going to fill those

detailed worlds with!"

Molyneux adds: "We can
now create cities that you can fly

around, we can create worlds that you can fly over, we can create offices and houses that you walk



nough it seems simplistic, oom usee basic Al routines stermine when enemies or ware of the player's presen

through. But if we're just going to have cardboard cutout characters that you are choreographed around - in this world that you have complete freedom of movement - they're essentially going to be boring." Molyneux does, however offer a solution. "So it's the advancement of artificial intelligence that is oning to be the issue in the next three to five years. That is a huge problem, much more than vectors and 3D stuff. With those things, you've got a flaggole that you're going to head for and you can say, OK. we want this resolution of graphics running at this frame rate, but with Al there's no flyppole. There's no ultimate objective to head for. You

objective to head for. You need to get people believing that they're walking through a real world, or suspend their dashelief. Most of Al's challenge is making people believe that these are real characters like a kid believes

characters like a list believes
in cartoon characters, and
that is extremely hard to do."
To this end, many companies
including Bullfrog are
investing heavily in game AI
fly research in order to deliver

4

what may very well be the next great age of computer gaming, "The area that will take a lot more work, and really is most interesting, is good intelligent opponents and collaborators in a game."

says Dave Lebling. "If you're playing a BottleTech type of game in which you've got a bunch of 'mechs going after somebody, it's all very good if you've got a bunch of friends who can play the 'mechs on your team and the other team. But what would be

even better is if you could play as the leader of the group and give orders, and have computer teammates carry them out in a reasonably intelligent way."

Even as online services offer sames that are faster and cheaper to play, there must come the realization that there will always be times when players will be alone with their computers. If no one has spent any time trying to create opponents that will give them a believable challenge, then all of the forward progress in creating more realistic worlds will have been wasted. There is an entirely new "species" of game waiting for computers to be able to perform human-like functions that have been previously thought to be impossible. Imagine an RPG where all NPCs converse so realistically that you cannot tell

them from real humans; space combat opponents who feel anger, sadness, and fear at the loss of a comrade, a sports game in which all of the players think and react exactly like the human players they represent: games that can tailor themselves to be more

entertaining just by monitoring your style of play. This is where the future of gaming lies: in creating new worlds where the player is only one of many

intelligences, not the greatest by any means.

### THE **MRTTTFN** WORD:

Books on A.I. Artificial Intelligence: The

Very Idea John Haugeland The MIT Press

For the hegiener who wants a comprehensive quide to the

mechanics of artificial intelligence, there are very few books that can offer an easie duction to such a complex subject. Haugeland starts of by guiding readers through the nnings of AI, including several chapters on pioneers in psychology and philosophy chose ideas shaped modere AT design. Afterward, the author replains the hasies of Al design, semantics, and actual construction. The books thes with a chapter or

concepts in human-like AL a set of pages that will have most readers champing at the bit to go out and start sission their own Al personalities

Al: The Tunultuous History of the Search for Artificial Intelligence

An excellent averylow of the history (and politics) of the quest for artificial intelligence Starting with Alan Turing and real strength of this book lies in Georges's interviews with AI llon, University of Michigan ed Stanferd University such the book is not as in death about some seccific prejects as it could be, the anecdotes alone are worth the cover price. And while not as nuts-and-bolts as Artificial Intelligence: The Very Idea, it ampides an excellent jumping

off point for anyone easer to

learn more about

the field

### AUTOPILOTS: Flight Sim Games

n flight simulations, developers must create enemics who fight back against humans as if it they were real people. Essentially, this means developers must spend a great deal of time learning how humans fly, how they fight, and what forces they can withstand and still be able to perform their basic naneuvers. For example, if a computer plane is in a doglight, and the quickest way for it to attack the player is by dropping into an inverted 9G turn, the artificial intelligence needs to know that this novement will disable the pilot, even if the aircraft Itself is capable of the motion

Chris Tector, producer of Interactive Magic's Star Rasoers, explains: "The way we started was by mading some books on flight and tactics, since we're mostly doing a flight-oriented game. We tried to create some notation and some sort of language to figure out what the had guys should do and what the read pure should do." Once a basic tanguage has been created to give casy instructions to the craft, designers by to

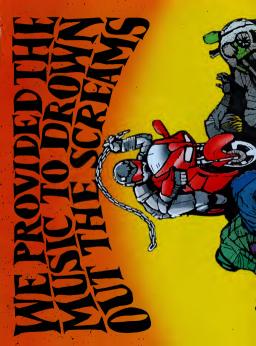
determine exactly how a given spacecraft would use its armament and speed to its advantage in Oftentimes, in the case of more realistic flight simulators, actual military pilots are called

in to explain to programmers the flight tactics used by fighters in combat. In Chuck Yeager's Air Combat by EA, the celebrated air warrier actually detailed entire missions that he had flown earlie in life, and the design team had the enemies fly and react just as those craft did. By using set patterns of Al like this, the team was able to

create flight experiences that would mirror Yeager's own if the player reacted just like the pilet, but would offer a realistic fight even if the player tried to do semething different Combat simulators receive more research attention than any other form of game AI, due

mostly to huge projects run by governmental agencies in an attempt to create more realistic illot training situations. There have been several like Yearner who started in the military and who be left to start their own companies or who have join er engenanies- Revan Walker, once a beliconter silet, recently worked with Demark on its new networkable copter title, Canfirmed KAN; and "Wild" Bill Stealy, formerly a military pilet, now running Interactive Magic, which just released a new PC-CO capter title, Apache







unwkrous super bikes Thrashi
ss raffic, Not to mention world has
ticker-wielding cops.

hrashing bands that'll rock your rid harder than a knuckle grinding, to make critical around the knoth

IOW BURNING UP THE PLAYSTATION

gt's Doom in its original entirery along







We name the 75

most important

people in the games

industry of 1995

They're all here: the most powerful money men, the most inspired creative geniuses, the most ferocious of boardroom tigers - the 75 most important and influential players in the business of making videogames

Has Mora in The Best Letic Whorehouse in Tenos. This same can be said of the (albeit more sober — and legal) gaving playing videogrames, behind the scenes is a \$16 billion industry bigger than the move industry, bigger than the music industry, and growing at an attounding rate. So who really publis

rings! Who really shapes videograming's facure? In completing the following list, NEXT Generation's editors have endeavoyed. paint an accurate representation of "Who's Who" as it stands today. In doing a, we have followed a few audelines. First, we have only included those who der and not the creator of say Pac-Mar, were jarvis still not actively in

e pushed the garring world in a new direction, at the sacrifice of those who may a done exemplary work in established fields and genres. Inextable however, by such a list's very nature, many of the people highlighted here are merely representatives of a larger team, and many stand on the shoulders of others. It's also inevitable that the list is incomplete — we look forward to hearing Jitimately the buck has so stop comowhere, and what follows is the complete nurs, as NEXT Generation burnbly sees it

### ng special

### THAT CREATIVE SPARK

Founder & Managing Director Frantier Developments

Cambridge, England Coreer Highlights Fice (1982)

What's the big deal?:

in 1982 games were either shoot-em-ups or, fro privative text adventures. David Braber's filtre charged all that for good, it was one of the very first games to feature 3D graphics, but more importantly it challenged the definition of what a corrector same was, filts was a sprawing spet swolving strategy. shourts, space-grader, but relatively little shooter and very little text. It was a complete universe built in an Shit world. There are at least two members of

NEXT Generation's educated staff who believe Bite is still possibly the greatest computer game ever. As the time, however, many software houses found at top challenging. It was narred down stores than once because there were no lives to be lost no store and no obsess start multip or end. But come its eventual release for the BBC Micro, it was critically acclaimed from day one. It's since been released on 16-bit platforms (not as good as the original) and there have been two follow-uss, Franter and First

Encounters. Braben has now abandoned he arduous one-man-band approach to development and his team of 10 at Frontier have several projects in the pipeline for PC CD-ROM PlayStation and Sem's Saturn. Least likely career move:

A charles ourse Most likely career move: More games, more from the Elite series, more (if only

ruin success.

Rich Hilleman VP Product Development

Electronic Arts San Maten, CA, US Career Highlights:

(she Modden Feetbell (1991)

What's the hin deal? From an unlikely background at the government's Nevada Test Site, Halleman joined EA in the med-100s and made his name with Chark Yearer's Flints Trainer It was only when Hilleman sweched to sports sims browner that he established burstell as one of the levfigures in EA3 phenomenal in-house team. He designed and produced the first console versions of John Medden Football and NHL Hockey. Both of them

bit consoler, making sports sare possibly the most popular category in the global games market. Least likely career move:

Most likely career move:

Hilleman's on "a mission to make interactive movies a major software category." Good luck to him



### THE WIZARD

Head of Software R&D

Nintendo Corporate Ltd Kyoto, Japan

Creator of Mana, Zeldo, and Dankey Kang. Creative force behind Nat Wings, F-Zera, Super Morio Koro More games have sold more than \$15 million units worldwide.

He's the most successful name developer in history. He has a unique and brilliant mind to well as an

imparalleled grasp of what gamers want to play in Mario he has created one of the most popular Korg, in 1990 In 1984 he was ested to design a game for the NES. He went back to DK and pulled out the unlikely hero, a short for mustached plumber called Mario, so star (with newly created broth the most popular corecte in the world. Soper Moso Bros games have so far sold 115 million unto around the world. Mysemotoh other series. The Legend of Zeldo, is idea higgly popular. His histor. Super NES game, fastsh shared. Soper Moso Which 2 could well be this best ever and his wiready. describe him as the Sower Sovelberg of garning, combining supprecedented mass market appeal with

Sish's island emerges as a plorious last humah on Super NES, Mono and Zeldo then lesp into the next noneronen on new and do for the Litera 64 what they did for the NES and Super NES use sell it.

**Eugene Jarvis** Game Director

Williams Chicago, IL, US Career Highlights: Defender (1980), Crush USA (1994) What's the big deal?: Having designed periodi sables for Asan in the med

70s, Eugene moved to Williams, got breen by the Space invaders bug and designed Defender, the firm's Sing-ever videograme. If he had done nothing else, he would still have warranted a place in any fac of videorame notables - a claim that will only be validated come the inevitable renewal of Defender



fever on Jaguar this holiday season. Jarvis recito that in its time, it has probably gobbled more than \$1 billion, and it remains one of the most planable garnes

Last year, however, larvis added to his lesson with the launch of Crush USA — arguably neck-and neck with Dordon USA as the most popular driving game of 1994. He's ourrently overseeing the fevelopment of an Ultra 64 game by Williams' San Diego com, a game that is destined to become one of the key titles for Nincendo at launch Jarvis is also currently working on a sequel to Crush' which will hit arcades next surreer (and probably the Ultra 64 next holiday season '96). He has no plans to move over to home videogame development but his designs and concepts will no doubt be translated into

some of the hottest games of the next generation. Least likely career move: jervis is dead against any sort of position that includes overseeing, or a hands-off role,

Most likely career move: Blow Crus'h' USA away with a superb sequel continue to produce arcade classics that dro through onto

#### Al Lowe Game Designer

#### Sierra On-Line Coarespold, CA, US Carper Highlights The Leaves Suit Lovy series

What's the big deal?: You Jensey Sur Lovy, Don't bush, It's widely believed that Larry (Leasure Suit and all) as the most widely played computer game character ever, thanks so the more's early introduction, its multitude of sequels, and good old-fashioned persoy. So where did Al Lowe joined Serra in 1992 and during his

first few years at the company put in some solid work on titles such as The Block Gouldron and Roberts Williams' Kngs Quest M. In 1987, hohis first solo project, Leiture Suit Lany in the Land of the Louige Lipards, made him a star in his own right. The earne introduced the concect of 'adult software," though it was neither shocking nor sophisticated it was set in an obviously adult world and dealt with adult themes - getting laid, mainly in was the SPA (Software Publishers' Association) award for Best Adventure Game of the Year. The series is now up to Vt. Shape Up or Sip Out (1994). and has notched up sales of around \$1 million

Least likely career move: Take life, or anything, too seriously.

Most likely career move: A new game, Torn's Passage, is due in November and Lorry will reappear in 1996

#### **Sld Major** VP Development

Microgrose Hunt Valley, MO, USA eer Highlights:

F-15 Stoke Early (1985), Reshood Tyceen (1990), Crebation (1991), Pirates (1983) What's the big deal?: Herer was an oneral co-founder of MicroProse back in 1982, but has never made the move upstairs to

corporate-wile. Instead, he remains a prolific developer of some of the best games in this w publisher's catalog. His first hat prosect was F-15 through the \$1 million sales barrier). He friest schlovement was probably the release of build-your-own-errors side Civization in 1991. A sequel Colservence in 1994 was also successful and

#### Civilemon for Networks arrived on shelves in September 1994. Least likely career move:

Move upstairs to corporate-ville Most likely career move: Apparently he's muling over a cod war game.



Sid Moler earns ble place is o garring's hall of force almost on the back of just one game, Christzelion

### Jeff Minter

Founder Santa Clara, CA, USA

Tempest 2000 and Defender 2000 (Inguar)

What's the big deal?:

Minor is one of the more bissire characters involved n game development. Huge commercial success has about sluded him but then it's nower been his number one goal. He has, however, built a repu as an insoured creator of rather odd but always pleyable cult classics - many of which reflect his dubrous obsession with Barries and carries.

He began writing games in the early '80s during the English home computer boom and had a number of hits on his own label, Librospott, His profile dipped a bit in the lass '80s and early '90s when he worked in the shareware areco, but when Atan launched the Jaguar Master re-emerged as the platform's leading developer with Tempest 2000 and Defender 2000. The traceines of Hinter games aren't for all but the gameplay at their heart is spot on

Least likely career move: A harcut. Most likely career move:

Money will always do his own thing and it will usually rwolve carrels, llamas, gameplay and, for the time being Jaguars.



have truly supported Attel's Jaguar. His

#### **Peter Molyneux** Founder and Managing Director **Bullfrog Preductions** Guildford, England

Career Highlights Papulous, Thoma Park, Magic Corpet, Syndicate, and High Octore

What's the big deal?: Since its formation in 1987 Peter Molyneux's Bulling has earned a reputation as one of the most configurate innovative and imagnative development teams in the world. Its first title Pobulous created a whole new genre, the "God" game. Standards have

hardly slipped since Thorse Pork was many critics' Game of the Year is 1994. All of its tides have been published by Bectronic Arts so far and earlier this year the ties between the two were made permanent when the publisher bought the developer in a deal shought to be worth around \$40 million. Peter Holyneus



hed Al sed graphics for etly pus a any other PC or cossols de-

complex becomes were much the man or the helm

Least likely career move: Move licenses and sooms sins don't loom bree.

Most likely career move: Originality, imagination, and increasingly better Al remain the watch words as Mohmeux makes himself at at home on the next separation of counsels at he

is in the PC CD-ROM environment. **Alexei Palitnov** Game Designer

Spectrum Holobyte Alameda, CA. US Career Highlights:

Teoris (1988) What's the big deal?:

For many people. Terms is the most playable rame. ever created. One famous businessman flying from London to New York looked out of his window as the plane approached the femous Manhattan skyline and started inservice the right change to done you the may That's the sort of grap Tetro has had on

reherator same industrials since it was first released on home computers in 1968 and on NES and and to behind the loss Curren - when it was roll Simily closed. Working at the Computer Center of the Moscow Academy of Science, Painton became incrested in Personinoes — geometric puzzles featuring interlocking T and L shapes. He set about creating a computer version and called it T and L shows his directioned at amount all his collection and it became massively popular throughout the Academy and soon, in offices all over Moscow. World soread to the West and it sparked the most desperate and protracted scramble for the rights to

any game over produced. Nintendo, perhaps meytable won the dis-Tetris has since become the most popular Gameboy title of all time and undoubtedly helped the hand held achieve its incredible accordance. Pointers new burn active its increases popularity. Paparov to and works in the United States where he is

Most likely career move: Move back to the USSR

Most likely career move: Presumably he'd like to do something that stops him

being known as "that Tears dude." John Romero Confounder and Game Designer Id

software Mesnuite TX. US Career Highlights:

Doom (1993) What's the his deal?-As the desireer of Ms Dages Romero has arreably done more than amone to establish the PC as a truly all around came marbine; not just a home for worthy fight sims or adventure games but a platform for real blood-thurder-action games with the emphasis on

blood. It was written around a breakthrough 3D. graphics engine and, using first person personners in placed placers in as action-parked a combat cure as his praced any console. It's impossible to calculate how many people have alread Doom as it was available exclusively on shareware lone before it can to retail and a almost certainly the most pirated came of all time.

Retail versions are available on Jaguar, Super NIS Mac and 32X. Ultra 64.3DC. PlacSupper and Sarurn warnings are currently in development. Back on the PC three's already been Doon 2 (1994) referred at moral and a stend and display stone in the server. Herefor excellable through sharewore and shoos series, Herebi, sittliane carough bosonic a ma Ror the real excitament is building up for next year's rainse Gode which will retroduce an alliene id enrine. Universal is currently observe a Doors movie. Least Likely Career Move:

Disney beckings! We don't think so Most Likely Career Move

Quote will be both bloody and brillians. Bloody brilliant, in fact. Tim Schafor

Project Leader LucasArts San Rafael, CA, US Career Highlights: Secret of Monkey Island II, Day

What's the big deal?: You want an interactive movie? Tim Schafer's been



arce of Densy's fortunes (well, almost). aring up for an assault on the 32-bit world, he

### **GOLDEN BOY**

President & Lead Programmer hiny Entertainment Laguna Beach, CA, US Carper Highlights:

Earthworm (im. Aladdin, Coal Spot, Global Glodiotors hat's the big deal?: An alliacound race way sixely handedly responsible for some of the 16-bit Least Likely career move: Surfamo the suited and a never seen again

Most likely career move: Strong seamlessly accide 32-bit age, he will take the platform game where

seemingly can't type him or his products enough. Is all the type justified Well probably not. But that's not the point, the fact is that the press and primers love han. NEXT Generation's opinion as to Perry's PR secrets?

Ways return place calls, don't make promest you can't keep, and above a reaction inserts in whomever you're taking to. Sounds easy? So how commandly any actual PR people (jits alone president and lead programmers) in



making them for years. Except that his are compeller, furns addictive, challenging, and feet this interactive. And they cost 10 times less to make than the majority of RMV crap channel out this year. Schefer pot his break when LucasArts needed

creative minds to work with SCUM, the proprietary breuse in which LucisArts eraphic adventure entres are written Tim Schaler, who had recently graduated from college, was selected as a "SCUM-let" () a one

He began as an assistant designer working on The Secret of Monkey Island. Two projects later. Schilfer and Dave Grossman (another programmer) were allowed to build their own rame. They created Day of the Testacle, Schafer was responsible for writing and design. Tim's first solo stace - 'I did it all on my own with about 30 other people" - was

Full Throatie. He both designed the game and wrote all of the dalorus Least Likely Career Move: Becomes a pioneer of FMV.

Most Likely Career Move: Will continue to find new ways to develop game

### Tim & Chris Stamper Joint founders & Managing Directors

Rare Warwickshire, England

Corner Highlights: Killer Instruct, Donkey Kone Country, Knight Lare (1983). Jetřec (1981)

/hat's the big deal?: Rare is perhaps the only company in the world who could claim to be vital to the mighty Nintendo (Silicon Graphics might — only might — be able to chim the inners tool. So yield in fact that Naturals forked out millions of dollars to buy a 25% share in the developer earlier this year, ensuring continued

support for all its formats. When the Stamper brothers first entered the game business in the early '80s, it was as a publisher called Ultimate Planthe Game, developing titles for 8-bit home computers. When the NES started taking off, the switched-on Stampers set up a new diverors. Rare, to reverse engineer the hardware and produce carts for it -- even though they didn't have a license Ninzendo initially frowned on such rogue activity but when it saw the end product it was impressed enough to make Rare the first western company with an official developer's known. The Stangers abundoned publishing, concentrated on development, declard the Elitimate name, and Rare was established

as the whole company k's since produced more than 90 NES Gameboy or Super NES totles includes Bostletoods and WWF Wrestlemento, There's no doubt, however, that Rare reached a new level of success in developing Donkey Korg Country for the Super NES, It was a massive lesp forward for 16-bit garring and has become the fastest selling videogome of all time Global sales currently stand somewhere North of 7.5 million units. This year Donkey Kore Lond has already hir the Garnehou and Didde Konels Guerr (DKC2) is lined up for the Super NES this November Rare has also completed a Super NES version

of its No. I arrade his filter loging which is due in October and should set new 16-bit standards. Rare was the first development team signed up by Nescrido for as Ultra 64 "Dream Team" A new version of Killer Instrict should be ready for the 64-bit executed at lawners

### MR. BIG SHOT

Chris Roberts Executive Producer. Austin, TX, US

Career Highlights: Wire Commoder series (original published 1909)

What's the ting deals:

Right sins are a large tice of the staple diet of
most PC gamers. For most people lift a Wing.

Commander game that remains the benchmark.
Why Commander first appeared in 1989, and to IV is due out this December and it's a safe bec that it will be another top north addition to one

st likely career move:

Least likely career move: To apply for a job at Atari.

Most likely career move: A couple more big bongs on Super NES and then lead the way on Ultra 64 A Rareware label is also on the

way as the Starreers figally move back to publishing J.W. "Wild Bill" Stealey

Chairman

Interactive Magic Raleigh, NC, US

Career Highlights: Co-founder and former Chairman of MicroPross, and fighter prior (really)

What's the big deal?: Software salesman extraordinaire who wollpapered

software stores with MicroProse games and has most recensiv sold several hundred thousand copies of Apache - the first same from Interactive Mazic A challenge over a wideogame transformed

General Instrument sales man/National Guard fiches pilot Sosaley into a software entrepreneur. Stanley played videorames with fellow GI employee Sid Melei and on one occasion, Stealey bet Meer a quarter he could bear him as Red Boros. He lost, "Firther pilots." of course, "don't like to be our-bragged," says Stealey, so when Meier said Red Boron wasn't really a great game. Stepley challenged him to make a better one Meier created Helicot Ace and the two men quit their lobs to form MicroPross

A fan of flight, got, and racing simulate Scenier greats all he names feature 3D prophics. Does he want to dabble in RPGs and adventure

rames? "Bits me, kick me, throw me from an amplace," he says held profee "There are other big companies that do those games perfectly well. Least Likely Career Mover

Most Likely Career Move: Will drive Insuractive Magic to new levels of realism in military simulations

Roberta Williams Co-founder & Game Designer Sierra On-Line

Coaresgold, CA, US Career Highlights: Founded Sierra in 1980, First King's Quest game

published in 1984 What's the big deal?: With husband Ken, Roberts Williams founded On

Line Systems (Serra was added and Systems droppy a couple of years later) in 1960 with the release of Mystery House, one of the first compater games ever to combine graphics and text, In 1984 she designed King's Quest I: Quest for the Crown which became perhaps the most renowned impositive of 3D. school results from the series has reached seven (The Princeless Bride) and has notched up worldwide sales of more than 3 million.

## ng specia

### SPEED DEMON



Yu Suzuki Chief Manager, R&D Amusement Division

Sega Japan Tokyo, Japan

Hag Ch (1995), Spool Hamer (1985), Distan (1996), After Butter (1987), Pover Dnft (1988), GLDC (1990), R-366 (1990), What Rocket (1997), What Rocket (1997), Dispose USA (1994), What Rocket (1997), What Rock

What's the sing meate: Check out the list of credits. Ye Sumio and (most notably) his AM2 team are responsible for some of arcade gavings finest bours. Ashough it was the Nes of Narico, Capcon, and Azari who statted the arcade phenomena, it is without question that Segs takes the credit for keeping it excess given Sugalo is treated like a rock star in laten, and mish Nestando's Street, Monnosto in terms of

outspoken, Setulo is never one to unnecessarily tow the corporate line ("Trying to program two CPUs has its problems," he grouned back in 1994, during the Saturn convenient of Depices USA "The

One very fact certral processor wiche on premisions ;
Set his track record enables him the freedom to say and do as he wishes. And luckly for Segs,
this has resisted in a Weblood of consistently faller other. Your Fighter redefined the fighting game.

Virtue Fighter 3 lives up to hopes. Which is no email ambition

Williams latest project is Photosmop 3D horror gime on seven separate CDs Least likely career move: Produce an Litera 64 game. (Nintendo has decreed Will Wright Living Legend Maxis Orinda, CA, US Career Highlights: SimCor and Raid on Bunging Day What's the hin deal?-

Will Writte was building robots as a "serious hobby and going to achool on and off when a friend sold him an Apple II. His first rame was Apd on Supring Boy, a garre in which players flow over islands and

dropped bombs That developed this editor to make the salands and I found that I was based a for more fun creative the blands than plones the sames thomselver," remembers Wil. The led to more

contemporate, remembers with this sec to more contemporated editors which led to an interest in city planning. He set up a program to test his dity planning ideas,"a guinea pig, which later became the precursor to SmcGot" says Wright. It's been said that there have only over been two novels over written, and that every thing also is just a rewrise. The same modes has been applied to

videorames, and Will Wright's SireCity has no be commission as one of the commission Least Likely Career Move-

Gives up designing and becomes a full-time suit. Most Likely Career Move: Continues to experiment with other genres of

movies, but everyunily realizes that his interest is in creating complex simulations.

Hirokazu Yasuhara

Game Designer Sena Technical Institute San Mateo, CA, US

Career Highlights: Souc the Hedgelog (1991) What's the big deal?:

Five years ago, before Torn Kalinske joined Sega, a wayer programmer parent Harolana Yanabara deceled to make a same for Seza that could compete with Mere, Nintendo's popular Wascot. Suber Meric Sres, was a two-button mme, so !

warzed to make a one-button game, a simple game," arrued Youhars. And that is exactly what he did. Yasuhara took a character created to Massoo Oshuma and incomprished a new olders data data processing scheme called "blast processing," (the marketing guys leved it — they didn't have the fairtest idea what it was exactly but hey did it sound

cool) to create Some the Hedgehay. Some not only became Sega's mascot, he personified the company's new image brish, young, arrogant - and fast on its feet. Playing off the bike rodent's speed, amoude, and popularity, Sovic was Sega's main weapon in the 16-bit war. Sega's success is now videogame history Sure, the game was no Super Mono Bros underneath the surface, there were few hidden tricks

or bonages, and playing the same a second ome rarely reunied another new But it is insecutible to dear the fun of speeding Scole over the ramps and loops wdeogameg's all about, right? At least, it should be Sonic's personal success (or should that be the success of Hasato Oshama and Hirokazu Yasuhara/) came in 1993 when the US "Q" ristings, which indicate the popularity of movie stars, politicians, and

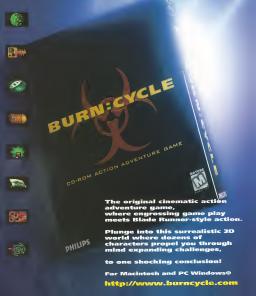
other public figures, indicated that while Nintendo's Mane was still more popular shan Mickey Mouse, Sonic The Hedrehor topped them both

### Least Likely Career Move: Most Likely Career Move:

Yet more and more bigarre side-kicks (a two-sailed frue? An exhiditall to accompany Sonic on his continued battles with the evil Dr Robotnik.

that all rames must be 8 MB or less ) Most likely career move: The Quest continues.

## USE YOUR BRAIN... OR LOSE YOUR WIND!



### THE GENERALS

Marty Kitizawa

President SNK Corporation Tokyo, Japan

renduct as answerestild Nan-Can stokesmentin claim that the MVS was the first successful multima system to hit the arcades. Though the first Neo-Geo Home System caw Immed sales, SNK released a CD-based unit this fall which retails at \$399. Least Likely Career Mores

Return to cartridges Most Likely Corner Move-Vary sergony but populy funded and distributed SMK well continue publishing to the core audience of Neo-Geo frontier who cash per enough 2D fabrers

#### Hisashi Kaneko President

### **NEC Corporation** Tokyo, Japan

Casses Winblighter PC Engine, NEC FX, a \$43 billion global enterprise, amoino 168 000 rennie workheide What's the big deal?:

What's \$1 billion? The difference in size between Snew and NEC river's what. NEC is a buse, horecorporation manualing a network of 88 consolidate subsidiaries, 63 manufacturing plants, and 370 sales offices. The company manufactures and markets more than 15,000 different products in more than 150 countries. In terms of its rightly sales, this company ranks among the highest: second in semiconductors, third in computers, and seventh in communication

equipment. Nothing to scoff at NEC renduced the PC Forms more notion a console which util enjoys a small, but consumently fanatical following in the US and Japan. The 32-bit NEC EX erapet small success in linear seeminth lacking NECs full support. But NECs influence stretches for above and beyond as propedure videomme products. As a leading semiconductor manufacturer, the company's enfuence is there from



ov the size of MFC influences the me industry in many ways, from chip surfacturing to videograms system design

the crade to the grave of every expect of computing Least likely career move: Makes moves to trouble Sore Seas, and Nintendo in

the videograms market.

Most likely career move: Remains a powerful, behind-the-scenes influence. In the words of NECs own corporate Intersture, "NEC will continue to build on its vist experience, global vision, and outting-edge technologies to lead the world community into the 21st century and beyond."

### **EVANGELIST**



President & CED The 300 Company Redwood City, CA, US

Career Highlights-Former SNK Corneration (1998): Neo-Geo (1990).

What's the big deal?:

In 1990 SNK Invested our Nex-Gen nature the

arcade Multi-Video System (MVS) and the Neo-Geo

home system 045). Dismessing a similar Nincendo

of Electronic Arts (1982) Founded The 3CO Company (1992)

at's the big deal?: sions is one of the game market's visionaries. In 1982 he founded Decuronic Arts and the

faultiess handling of the most creative people in the industry produced 4 string of quality produces that put EA at the top of the computer game business. The trouble was, this computer game business. was try compared to the console marker. Hawkens had made a poor call, had seen Nesterdo as a ninky-dinky listic flut and chosen not to develop on carst. He also hated the strict terms and conditions that the console companies imposed on third party publishers. But by 1990, the sheer see of the business he was shareing boxed him to change his mind. The firm adapted brillianly to the demands of the comole audience and tides such as Julian Madder Freshall and Desert Sollies.

the features of the corroles software and offer sode in July Middler Control and Cover Solic.

In 1991, Leaves University of the Cover Solic Sol

Greate a global standard for interactive entertainment

est from a new hardware "partner," then hype the hell out of M2.



Sega of America Redwood City, CA, US

Within 5 utility grant Steps in 1990, he was said to have the best job in the industry. When Kalardo journed Steps in 1990, he was said to have the best job in the industry. He job was no try and best Nimendo. If he failed, well of course, he failed; no one bests Nimendo. If he succeeded, he'd have pulled off one of the great business coop of the 'DD. He succeeded.

generally considered to have taken a larger sice of the 16-bit market than Nintendo at a time when the 16-bit market were ballede (time '80u/marky '90s). More than that,

Most likely career move: Concentrate reclusively on 32-bit, making the most of a head start over bluezereds are relying on greater gaming repairment (and arcade bits) to combat Sorp. Oh and leth-not forget Sugai situally secrousing interest in theme parls....

### THE FAMILY

ident (Sam) and Chairman of the Board (Jack). Atari Corp., Sunnyvale, CA, US

Skey in the next personner interespector where every time the provided frameur insuction and a lack of immersion find party software rapport the jugue lass revertibles sold more than 150,000 insolance worldwide an Anni is confident of hinting 50,000 by the end of the year.

The price has receively been statished from \$250 to \$150 A Mark 2 jag with a ballow 10,000 from 6 also laters in the year. After easily 135 years in the



Keep playing the price card and hope that Mark 2 brings a whole new wave of interest to gamers

### THE HEAVYWEIGHT



Olaf Olafuson recently moved from Samp Computer Entertainment where he overnew the US Immch of PlayStation

Diaf Cláfsson

President, Sony Interactive Entertainment New York, NY, US

Carter Highlights: Ourses the laures of Parkettes in the US and Forms (1995)

Overlaw the Islanch of Physiciston in the US and Europe (199 What's the big deal?:

Hungamen: of the \$44 billion Soay Corporation, goes all the way to the top, and then issips on going (runners that Precident Bill Clinton is applying to Soay for a promotion, bowering are unsubstantiated, You have to also passesshere, though, and in interedistic charge of all Physication and Soay activates development activities in the US and Disease in Coll Obstance.

periode in John Consistant.
Working out of New York, Oblisson inports to Mickey Schalhol, the president & CEO of Sory, Corporation of America. Whomever permanently replaces Store Race the president of Sory Computer Estertainment of America with report to Olif. America Managing the Storey Computer Stor

Although self-eig from a region cash herrorings as the result of its aborthsenters are more production. Story all has legg models. Onlikein gets to the \$5 or in a coults then Oblishon is in charge of the gene room. It was Oblishon women the \$41 million acquisition of gene developes thypoticil (extraonable to Wijellut and Democrat Derby), or up the US Projection operation and (see Linear injustment) arranged for Pilland Jackson to attend the Projection party as the Dectrools Distortalisment Exposition (§5). In All has the

\* Least filtely career move Runs out of cush

Mest likely career more: The profession is did no prefect position to guide Sony forward into every aspect of electron propositions and interesting ensurationers who if help of the Profession region

#### Howard Lincoln & Minoru Arakawa

Chairman (Lincoln) & President (Arakawa) Nintendo of America Seattle, WA, US Career Highlights:

Hore than a third of all US homes have a Nintando machine. (Bizarre fact: In 1954 Howard Uncoln was the model for a Norman Rodowell painong).

the model for a Norman Rockwell painting).

What's the big deal?:
In 1985 when Nintendo entered the US home wideomare market there was no home wideomare.

and the light the operational trademand has territorial and including their half left receptors were. With Artikoso and Lacoby at the helm and the code scaled against them, Niteracho of America brilliardy lad the foundations for the sprawing, melalizaced best that now likes to be inverse as the interactive entertainment business. Yes, Segs worked worders in 16-bit and, eurs, Sery's looking bot, but a all began on 16-bit and, eurs, Sery's looking bot, but a all began.

with Arskaws, Lincoln, and Nintendo Least likely career move:

Succumb to Segn or Sony Most likely career move:

Keep the Super NES hot this Christmas and then really turn up the heat with Ultra 64 next year. Anakawa is expected to eventually take over as President of Nintendo in Japan.



Howerd Lincols and Misoru Arakawe are possibly still the two sees powerful man in the US gi indestry, but their influence is ender threat from Soay, Lincoln (above) is interviewed in NG S



#### Hayao Nakayama President Sega of Japan Tokyo, Japan

#### Career Highlights: Ownell head of Sera

Overall head of Segs.

What's the big deal?:

Abhough Seght biggest successes have been outside of Japan, both the US and European Segn operations ultimately report back to the Segs Emergenes HQ in Tokyo. It's im Japan where the majority of Seght hardware development, cartridge immufacturing, and, perhaps mast importately, key software development. takes place. Sega's arcade division is very much the creative engine room of Sega's success, and at a little known fact that the blue hedgehog who took the US.

formit word by ordern organily spides in Japanese. New Newholson and an artist of the Period of the Center of the Period of the Center research and development departments to chatted in term that professionally sorted on the Center of the Period of the power of Sery Periodicistic And despite the aucess of Kinriskeh US operation and the smith access enjoyed by Sept Europe surface. Next Alexandre Sept remarks a company with its process very firm's Island.

Least likely career more: Yields control to Segris Euro' and US subsidiaries



#### Tarobias Tokunaka, the man who overselve what is arguebly Sony's most successful Januarese Issueb sizes the Walkman

Most likely career move: ki long been removed that Singly long-own plan is to mose occ of the home handware beames, and to mose occ of the home handware beames, and incredefill black on as strength of otherware orasion and the arcidal reductry. As part of this trend, lock for Singly location-based commander conser butiests to give A deal with IDO has also been butiests to give A deal with IDO has also been butiests to give A deal with IDO has also been such violage for faith TAL Congitation aside. Nowwe one things for sure, Hope Dalapyams will be very mach as the covered Singly buttoner.

#### Teruhisa "Terry" Tokunaka President Sony Computer Entertainment

Tokyo, Japan Career Highlights:

Mazerminded Japanese launch of PlayStation
What's the big deal?:

From a standing text. Theny Telepraks his managed to rout to the force of the pack in the toughest videoprating market in the world, that of Ippen. The PlaySection is commody neckand-most with Stoture (passable, both machines are wiveleg — depending on whom you talk to your's installed bases of well over a million usins and dimining first.

It was Telepraks who acrossmood to the world.

the relinant details of Physication in October of last, year, revealing that Physication would launch within a year, revealing that Physication would launch within a week of Statrat, and at a significantly lower price is was Takanaka with usuallat the minimature system of hypasing Soep's studenced durinhous or channels in lapan and selling Physiosopics decret or remitters that conting the gray emport between to a minimatur, And it is Takanaka who has continued on steer the programs of what many widestry analysis regard is Sooy's more successful featured since the Wilderman.

#### Least likely career move: Goes down to Sega without a struggle

Most likely career move: Will continue to fight tooth and nail with Sogs for japanese market share

### THE EMPEROR



respected man is the videogame industry. Hiroshi Yamsuchi, the hi of Nictordo and most powerful player of thom a

President of Nintendo Corporate Ltd. Kyoto, Japan

Career Highlights

Mintendo has sold close to 150 million game mischines around the wor What's the big deal?:

In domain, marks, let confidence il terra gildal shie grome gia e nell'accesso del 18 labor. (que mediag Parts, 1) (1991), let conseque giagi conference primari let sirringuna del 1811 bishor, (que mediag Parts, 1) (1991), let conseque giagi conference promoti dei sirringuna bismosi formi del sorrico del 1811 promoti formi per la conseque giagi conseque giagi al primari promoti promoti promoti per la conseque giagi conseque giagi al very reschi in charge. When the same eventually connec, replacing him will be on of Ninnedol's consigner, dell'enger.

Least likely career move:

Most likely career move

Making 1996 the year of the Ultra 64 through low cost hardware and stanning software.



## NETHECH

THE MECHWARRIOR 2 COMPANION FOR UP TO EIGHT PLAYERS
OVER A LAN OR HEAD-TO-HEAD VIA MODEM



F959

EXCLUSIVELY FOR

**ACTIVISION** 

Head to your retailer or download from http://www.activision.com

rnor and "Micch are registered trademarks and NetWesh is a trademark of FASA CORPORATION. © 1995 FASA of Activision is a renistered trademark of Activision, Inc. © 1995 Activision, Inc. All rights reserved.

## ng special

## THE OUT

Frank J. Biondi President & CEO Vlacom New York, NY, US

Robert Allen

ATAT New Jersey, NJ, US

Career Highlights-Chairman of the largest tol-

company in the world (1968 - present)

What's the big deal?: A way or so are ATAT seemed to be cooker toward gamas. It abandoned plans to fund a modern device work with Segn's Genesis and sold as stake in The 3DO Company (screoping its prototroe multiplate) in the sencess). The firm remains, however, with 90 million deline customers and most certainly will be

the key player in the field of interactive If a publisher wants to deliver direct to homes, it wants to talk to AT&T, the biggest cable company in the world. On too of that, the firm has a rount nurs with Silcon Graphics called Integrated Digital Solutions, which aims to provide hardware and software for interactive online making discretis in the horre. It is also the owner of the ImariNapon Network with more than \$0,000 subscribers able to access games and information as well as form online "communities of interest" - which almost certainly

Viscom completed acquisition of Paramount Communications in lary 1994, creating one of the world's largest enterteinment companies. What's the big deal?: Viscom owns MTV networks, Showtive networks. Simon & Schuster Publishers, Paramount

Career Highlights:

Comyunications, Paramount Parks, movie screens in III countries, cable systems serving I.I million customers, 12 television stations, and (obviously) Viscom Interactive Media. It also owns Blockbuster

And Blockbuster owes Vergin Interactive Exercument and hipports to be a misor investor in lust like Sons the Viscom empire just keeps on

wing. And pulling the strings at the top is Frank. Bonds. (Armally Varion isself is a wholly owned subsidiary of National Amasements, Inc - but we won't go into this right now). Viscom's influence on the interactive entertainment industry - both actual and potential — is huge. And as communications plays a larver and larver part of people's lives, as influence just has to strengthen.



sees to grow as a ult of both sequisitions and the game

Least likely career move: Fails to capitalize on the communications boom.

Most likely career moves Remains largely invisible, but continues to exert a growing influence over all aspects of the interactive entertwoment industry.

**Steve Case** President America On-Line (AOL)

Vienna, VA, US Career Highlights: Three milion subscribers and climbing. Fast,

What's the big deal?: America On-Line is the fastest growing, single largest online community in the US. Earlier this year, it

extended its domain to include the Internet. resulting in a flood of "newbest" cascading onto the World Wide Web. Internet snobs may hate it, but ACUs subscriber base sust keeps on prowing. If the coline world continues to expand (as most expe predict it will, then AOL is sitting on a gold mine. In any new industry, it's the rush for early marketshare and mindshare that secures altimate success. And right now AOL is king of the hill perfectly positioned to persuade the virtual alaying fields for substances online mining phenomenon eventually emerges Other than the giant Compuserve (soil bisse

on a world scale, but not growing as fast), AOLS main competition is currently taking two forms First, the Microsoft Network (MSN) is set to take of in true Microsoft state as a result of its bundling with Windows 95 (at the time of going to press, in "unfair competition" court case is pandine). Second. Web browsers such as NerScape and Mosaic are enabling increasingly easy Web access — the ease of use factor being AOL's main appeal.

Least likely career move: Surrenders without a serious field to Microsoft. Most likely career move:

AOUs recently launched Garnes Channel proves to be just the up of the seeberg. Online garring has a mastive future, and AOL - if only by sheer bruxe force - very well could be the organization to bring

Tom A. Jermoluk President & COO Silicon Graphics Industries Mountain View, CA, US

Carner Highlights: Signed deal with Nintendo In 1993 to develop internal sechnology for Ultra 64. It undustry's pre-eminent provider of development hardware. What's the big deal?:

When Tom Immoluk joined Silicon Graphics in 1986 he probably didn't expect to make game systems With an MS in computer science from Virginia Tech, lermoluk's first project was to help design a new CPU and bus architecture for workstation class hardware. Jermoluk's forey erro electronic zames began in 1992, with the development of the Renkty



entrating the Litra 64 chipset of the error Electronics Show is Josephy of 1202

## an't as pressor as it sounds, and it has set up AT&T



ALBE's head Robert Alles's influence on t ming and the internet conti

WorldNet Services to give its customers a helping hand onto the Nec. Olyand it owns a small share in Spectrum Holobyta its revenues in 1994 topped \$75 billion That's, Nos. a lot of cash

Least likely career move: Free telephone calls any time, any where! Most likely career move:

To pick and choose the content providers which will nevitably gain access to the avesome ATAT communications infrastrumen



## BIG BROTHER

President Microsoft Redmond, WA, US

Learned MS-DOS operating system in 1981, it is now installed in more than 120 million PCs. He learned Windows in 1983, it is now used on excert than 50 million PCs. Oh, and scenestim around 1994 he became the richest man in the world.

What's thin him steal? Gress founded Microsolt in 1975 and hes built it into the biggest software company in the world as imageal a part of the PC market as it is possible to be. Windows 55 was launched in August and the firm expects to self more dain 50 million copies in the first.

ses the firm focusing on games like mover before. The new renromment has been created with gran, developers and players specifically in mind and all the major PC leisure publishers in the world are planning. Wandows SS ventions of old and new games. Microsoft itself is havinging out genides areafotable games such as Florer House and Flory. No also

sple gates such as Hore Mone; and Fury, It's also contented a new riviness called Gateshire's obditional or developing and publishing Windows 15 games. The very contented gates with the content of the PC pie. They're Golde growth.

He wasts in.

kicks to fight sins.

Mot ik y arter mo World domination Doo't ride it our



The famesh of Wisdows SS, complete with dedicated game Settware Development Art (50) has increased Microsoft's influence in the game world considerably. Whereas Windows 3.1 hold games back, Win SS looks destined to accolerate the PC's greeth as a game machine

Engine, a version of which would inter become the heart of the Nimendo's Ultra 64. The partnership with Nimendo was riked in early 1993 (it's no secret that Silcon Graphic's technology had been presented to a number of other zerie handware manufacturers).

and the deal became public that August.

Thus 64 (for the moment as least, however) is simply the top of the incherg Silcen Graphics provides the best development sools for the world mercancere secretarisments, special effocts, and CAD industries. The company is now also as active game development working in coepia-cion with Rocket.

Science, among others

Least Likely Career Move: Gives up on the combination development and administrative position and confines himself to aroduct development.

Most Likely Career Move: Skoon Graphics is crammed to the roof with smart (very smart) people. And they actually make cool

staff (as opposed to samply being very good at manufacturing, marketing, and deterburing. — Bia, for instance, Acclaim) Jermoluli is in the perfect position to lead SGI so yet further greatness.

### Gordon Moore & Andrew

Grove Chairman (Moore) & President (Grove)

Intel Santa Clara, CA, US

Career Highlights: Having jointly four-led letal in 1948, they developed the chips that have driven the PC industry ever since. What's the bilg deat?: Intel mode, belook is 's not kent an ad tas line, in the majority of cases it's also a fect. Intel chips have been, are, and presumably will be at the heart of the PC's consessed growth Least likely career move:

Slow down, Least likely career move: PA Favor favor favor...

### Michael Spindler President and CE0

Apple
Cupertino, CA, US
Career Highlights:
Assets to the second most possible computer format

in the world What's the big deal?: Having begun with Apple Computers in 1990 as the

range global methods of control in their test was the size considerable correlation in their test has size considerable in many control of comparish specified is in instructed, they compared specified or dishife the reysons as a gare pattern. Designate many for the reyson as a gare pattern. Designate designation of the source of the statements for the source of the source of the source for the source of the source of the source for the source of the source of the source for the source of the source of the source for the source of the source of the source for the source of the source of the source for the source of the source of the source of the source of the source source of the source of

pering continues to proliferate for the Phic platform (and some setter games like Reging and Modelston become more available), games are only becoming a more significant part of Apple's domain. Least Likely Gamer Move: Will force every Apple reduces to where a suit.

Will force every Apple employee to where a suit.

Most Likely Carter Move:

Will devote the conting years to redefine Apple's
advantages in multimedia in lieft of advances made in

### administración in light of administer in Win 18, Will see what happers with Pippin... Masayoshi Takemara Jaeanese Finance Minister

Tokyo, Japan
Career Highlights:
Control the most successful economy in the world

What's the big deal?:

Whi, Sign, Netroda, and Sony menufacturing some, if you find, sign, he had so the hardware and software in Igan, the you it do not net reportate currency in the global garie sear-last. When the you is strong it costs other companies funding US divisions of Sign, Nitracon, and Siny) invarie movey to buy goods and so prices can be forced to rise at result. This also has a limit of

and the record war by an ended record lead and fair great pressure on the period of the States and Barbarrase. Companies were paying higher and height dollar process for goods ean object, they are president an entire of goods ean object, they are president an entire of measures designed to weakin the year and on encourage truck with the continuous and terrogs. He has the discretization where the continuous and continuous and they are the total consistent access so for the continuous and the continuous access so for processing the continuous and the continuous and the continuous processing the continuous processing the continuous processing the continuous and the continuous processing processin Least likely career move: Let the yen sky from its position as videograming's

olief currency.

Most likely career move:
To coronue to make a lot of money. For his

### F.A. Maljers

Chairman Philips Eindhoven, Netherlands

Career Highlights: CD-4 (see use the word "highlight" loosely). Aborts deal with Natzendo to produce CD-ROM drive for

Super NES. Consumer electronics gure. What's the big deal?:

Philips, much as Sary del before del launch of Phylotaton, has been stalleng the game nedestry his a hungy produter — wethout much targible success ordes. CDL stranged file and inhabet-folk-strene multimedia player. Internedia up an underspowered pages muchican. The correspony unstraining the deal with Niteración a lagoritary (both Sory and Philips associated dels thely had societad or see day as CSI in 1991). As its turned out, anabher plan carched furties an object Philips and proceded furties and object Philips and proceded furties on object Philips and forms of the proceded proceded furties on object Philips and forms of the proceded proceded furties on object Philips and forms of the proceded proceded furties on object Philips and forms of the proceded proceded

anableors to enter the horse videogaming market remained sufulfilled.

Philip has to remain a major player in the home gaming industry however, simply by virtue of its see and mostle within the consumer electronic industry. The company's CD-ROM technology also leads the world with its disc communical controllers.

Least likely career move: Leaves the wideogene arens for good. Most likely career move: Ramors how been circulating for a long time that

Ramons have been crecularing for a long time that Philips is eager to take another bits at the videogame pie — it his been suggested that it came close to purchasing The 3DO Company at one time Morei fleaty for the company in a partnership with another existing player.

#### Yoichi Morishita President

Matsushita Osaka, Japan Career Highlights

Career Highlights: Istal Investor in The IDO Company, Produces IDO MidPhyse: Owns MCA (which in turn owns a dies of Investor).

What's the big deal?: Measables (the parent company of Parasons) is the biggest consumer electronics company in the world it is much more than a simple electronics.

It is much more than a simple electronics manufacturer like Lucky Goldettz, Mettachnic is also a prominent developer of technology and has fingers in all sorts of past all over the work, creating an entertrainment empire that has an often incargible affect on the incentive entertrainment industry at all stages of professers and handware productors.

One of the insul investors in The 3DO Company, Mississinha planty to gain by sticking with 3DO first the loss term, and has to be ingarded as the most Missis producer of Hawkins & Con M2 unit, if indeed it ever comes to market under the present 3DO setup.

Least likely career move: Webdraws from the interactive entertainment industry completely.

Least likely career move: Remains actively modeld, if not with 3DO then with another hardware partner.

### Nam K. Woo President

Lucky Goldstar Corp Seoul, Korea

Career Highlights: Manufacturer of 3DO Interactive HuldPlayer. Consumer Bectrories Gent. What's the big deal?:

Epitomizing Korea's taken for producing alms low cost coreamer electronics goods. Lucify Coldean has to be considered a player in the world's insuraceus entercurrinant industry by virsue of its deal with 300 on produce in Internative MARTISper. Although the design, marketing, and ordation of the 300 system retember sery much

evalution of the 3DO system remains very much under the weachful go of Hewtons & Co. in San Matter, CA. GoldStar has also run with the ball, to a certain extent, by establishing in Secul (Korea); capability of him of 3DO-based amisoment arcades. Least likely career move:

Abundons 3DO in favor of its own, independently produced game system (Goldbarr's strength less in producing existing technology at low cost). Most fillially carrier move:

Continues to be the price-leader in 3DO hardware manufacturing. His nervourced plans to size up its own software publishing division.

### Michael Goldstein

CEO Toys R Us Paramus, NJ, US

Career Highlights: The US biggest toy and game retailer (1995) What's the big deal?:

Tops R Us may not be purely a videogame store, but the sheer volume of goods that pass through its doars each year (and especially the mosth between Thankingsing and Christonia) give it muscle enough to spare for the videogame industry. Increally the lack of associatation over earns at a few extra

Inharcagining and Christomasy give it existic enough to speak for the wideogene industry. Homeslife the lack of specialization even earns as a few eaths points. Because Roya R.U. offers no support for PCbased systems, and in generally regarded as a tops store, it ensuings to across the game buyers that are toughest so reach by the manistering men back as Videozene Corp HO.

Most of velocytrie axis go to the "silest majoring" of bytem who don't read vistogram magazase, don't regater their activate, said don't go to the places that "traditional" games de. Insect, their purchasing decisions are based more hairly on word of most and (heefs Spis Ruf' trungs compared whatever it is that is displayed most prominently, demonstrated most readly and recommended most.

hearstly by the store isself

Least likely career move:
Replaces its videogame stock with Pogs.

Most likely career move:

Most likely career move: Ensures that the 32-bit wileogame war is fought on the shelves of Toys R Us stores



finance, transferredictions. and so on, and so on. The trick is finding the most There are man annivata and market research companies out there, and many different

Least likely career move: Analysts are always wary of going out on a lenb Most likely career move: ... but predicting a major trend far in advance is how these guys make a living

**Michael Katz** President Katz & Associates

San Francisco, CA, US Career Highlights: Headquater (or should that he "recruiter"?) to the videoraning world's rich and famous.

What's the big deal?: A company can only ever be as good as the people it employs. So how does one go about hiring the right

Stuart Dinsey Editor-In-Chief Computer Trade Weekly

Hitchin UK Career Highlights:

Igland CTW 1986. Appointed Editor-In-Chief 1988

What's the big deal?: Based just outside of London, CTW (as it is universally known) is remirded by many as the interactive entertainment industry's bible. It is the only trade title circulated throughout all major territories and so acts as a sort of global gauge for the marker, both setting and reflecting the tone. Its position of prominence is maintained not only by the quality of the editorial but by the quality of its readership - it is taken at the head offices of all the major players

Least likely career move: Advertornals.

Most likely career move: Continue to inform invertes arrans and annoy fand in many cases, all four) the errore same market.

**Jeffrey Griffiths** Senior VP Merchandising & Distribution **Electronics Boutique** West Chester, PA. US

Career Highlights: More than 400 stores scross the US and Canada.

What's the big deal?: leffrey Griffiths is ultimately responsible for Electronic Boutsque's buying decisions. He decides what systems and mines his stores will carry which in turn has a direct affect on the fases and fortunes of the note machinera

Electronics Boutique is the US premiere specialist game store - covering all formats and systems. And if leffrey Griffiths don't like yo, yo ain't name" in haby.

Least likely career move: Abandons game sestems from its store lineup. Most likely career move-

Contract to be the maintream store of choice for game enthusiasts

Lee S. Isgur Managing Director Jefferies & Company San Francisco, CA, US

Career Highlights: Analyst to the industry What's the big deal?:

Information is power. It follows, then, that those who prowde information hold considerable power Except of course, that there are plenty of people willing to sell you information, market research, sales

people pwear by many different people. Jeffriet & Corporary is one of the more widely respected organizations, and is here representing the business of providing information This information is used for product development, sales, marketing efforts, business

analysis, and - last but not least - as a means of finding out what the competition is up to. The game industry couldn't function without it, and as the financial stakes out hether the analyst becomes yet more important

THE EXI



Crawford puts a brave face on his exit from 1995's Computer Game Bevelopers' Conference

Free-lance Game Developes

Santa Clara, CA, US Career Highlights: Founder of Computer Garring

What's the big deal?: community for a number of years, and he regarded as a genius, has-been, or savior of garring, depending on whom you talk

back in the early 1980s (such as 1985) development. Back in these early thru of get together in his home for a group of elevance. For a various polinical reasons, Crawford has slowly been oursed from the Conference's

Board of Directors, and made his final (official, at least) appearance at the meeting this fast year pretty much always a thorn in the sale of any by business gaine conquery selecting to wow an audient with the conquery selecting to wow an audient with its her new rechnology. Dismissing the majority of interactive software currently on release as "any fear", as they year's QODO, Creawford is a good old featured gaine with the believes in replay not in graphics. And — surprising as it may seem — he is one of the few people in the Unfortunately for Crawford, his beliefs are also parhaps at the heart his professional problems. Previously a text-book example of the one-man programming team, Crawford has found it hard to

agir his considerable talents to being part of a team structure. But as the days of the one-man programming team fade into history, let's hope Chris Crawford stays alive and locking. Least likely career move

Heads up a development team to churn out cookie cutter platform sames for Accians

dost likely career move Remains the computer game development community's conscience. At least, to shore who will better

### **FOUNDING** FATHER



of, writing for lightning to strike a third time. Interviewed in MG 4, Bush claims he has discovered how to get women interested in videogames. Stay tuned

Sunnyvale, CA, US

the consider in 1978. It sold more than 70 million after

2600 was the machine that led the late "No horre-game

Time Warner in 1977 for \$28 million. A year later. classe), unable to cope with the corporate constraints of such a large company. For the next three years, while the 2600 was at the heart of what became a multibilities dollar industry. Bushnell watched as an outsider and built up the

later went bust) He continued to watch as the game business in general (and Aturn in particular) self-destructed producing rediculous amounts of crappy games. In 1983
Asian was responsible for Warner Joseph \$283.4 million in one quarter Bushnell later re-emerged unconvicingly as Senter in Supposale, CA. Covering nearly 40,000 square

elements of videogames and adviction. Bushnell also, modernally turned down the chance to

be a partner in Apple when it was just two kids (jobs and Woonak) describe prototypes in their strain Least likely career move

Chuck E Choose 2: The Anchory's Revenge Most likely career move: The plan is for hyndreds of £2000s all over the world, but

topie' By consulting NEXT Generation's Now Himse section of course, or by utilizing the services of a headhunter such as Michael Katz A headpunter is bisscally a high-powered.

proactive recruiter. He or she will listen to your emakeyment needs, and then do his or her best so reset them for you recruiting staff from an existing pool of those looking for work, or contacting those who may be interested in a change of position. In an industry as fast moving as that of the game industry. quick staff turnover is generally considered a fact of life - five years with the same organization is regarded as somewhat of a long stretch Katz operates at the highest level of the game industry, specializing in executive level appointments Least likely career move: Finds Nimself without a job Most likely career move: Continues to grease the wheels of the Interactive entertainment industry.

Kleiner, Perkins, Coffhil & Silicon Valley Venture Capitalists

Palo Alto, CA, US Career Highlights: Instal investor in The 3DO Company. What's the big deal?: Veneure Capitalists help make things happen, They

provide the start-up capital for companies that have a great idea, but no way of bringing the idea to market without outside help. It's a risky business, of course, and picking the right people to back is never easy For every Noise Bushnell (he had to search for and wide before he could common friends, family, and his bank to support Forg) or Steve Jobs and Steve Wegyak (Apple suffered from a similar lack of initial support until The Byte Shop arrived to take an orde of 50 Apple Is), there are ledger books full of investments that never came close to parker off. The aled of being a venture capitalist is being able to tell

the difference between the two at an early state

### THE WATCHER

enator Joseph Lieberman, D-Conn

macratic Leadership Council Connections IIS

Career Highlights

Pushed the wideogene industry into establishing a ratings system (1994) What's the big deal?:

Senator Lieberman was the main political force behind the establishment of a ratings system for cogames by the IDSA directactive Digital Software Association) last year. "White have today to talk becauting right many before Christmas. Not the move, but — unfortunately—the vice in the second of the Community —the vice in the second of the Community —the vice in the second of the Community —the vice in the second of the Community Interview and Inte comber 1, 1993 as a senate press conference. "Outraged" by Night Trap and Montel Kember, he stated. "I really with that we could but them constitutionally" but in the end had no settle for the

imposition of a racings system Although the Senator is challenges --- he sangle-handedh a page for photocopying services and — who knows when his attention will

Least likely career move:

Stars in the sequel to Mortal Kombot: Most likely career move: Construes to laugh in the face of

Kleiner, Parkers, Coffed & Bevers were one of the initial investors in The 3DO Company, and as a result, they made a lot of money. They are in this Top 75 to represent venture capitalists the world over Long may they thrive - it's their nursuring of the creative spark that keeps the business on its toes

Figures that there's nothing left to discover in the world of videogames and retires-

Most likely career move: Someone, somewhere out there (and in all probability the place will be a garage) is working on a argranges of The Near Rie Thine It's simply the venture Capitalists' job to find it.

**Doug Lowenstein** Descrident IDSA (Interactive Digital Software Association) Washington DC. US

Co-hosted Recordics Forestainment Exposition (E1) Los Angeles, May 1995 What's the bin deal? in the words of Lowenstein hanself, the IDSA Provides a voice for a tremendously important but

provided unrepresented segment of the entertainment industry in the US." Similar in function to the SPA /Software Publishers Association), the IDSA has typically represented the cartridge-oriented side of the interactive encertainment industry - and its such has occasionally been accused of being merely a tool for

the collective will of Sera and Nintendo. These charges are largely unfounded, and even crisics cannot deny the success of the IDSA in cohosting the spectacularly successful Electronics Forestrainment Exposition (F1) in LA last May. Often an redividual game publisher or hardware

regularance will not have the muscle or resources. entire game industry to speak as one voice. This is where the IDSA comes in. It played a central role in the entitlebreary of inference printer in 1994 and on Caninal Hit It plans for an annual E' to become as assemble to the rame industry as the CES (Consumer Bectrories Show) was in the past. So for at looks as if it has every chance of succeeding Least likely career move:

An IDSA press release enotied 'It's true' Veleneaves moly do screw you us? Most likely career move:

The E' show becomes the game industry's most heh arolie aroual ratherns

#### Ken Wasch Chairman

SPA (Software Publishers Association) Washington DC. U.S. Career Highlights:

More than 1,150 members, and climbing (1995) What's the his deal?

There are two major trade organizations that encompass the compasser and videograming world. One in the IDSA (Interaction Diore) Software Association), the other is the SPA (Software Publishers' Association(). Whereas the IDSA traditionally has sended to represent what was the carmides industry the CDL career for the more corrector-oriented publishers, developers distributors, and retailers. Now in its 10th year the SPA includes software

companies involved in the publishing of not only games, but also business and education software. It is acrowly involved in the oneogra war aminst person and is heavily involved in liablying efforts on Capito

Hd concernor issues such as compensiveness, comratings, cryotography, copyright legislation, as well as protection, among other notable rams. Probably the most high-profile and caveble involvement of the SPA (at least to the gamers on the street) came in 1994 with the introduction of

rame "rarings". With the impostings of ratings came a chance to cooperate with the IDSA in creating an reductive standard system of classification Unfortunitalic this didn't hippen. As Ken Wissels. executive director of the SPA explans, "[the IDSA system) ... would eve the established and powerful write-comme comments the shifty to control screen and retail channels [Members of Congress] never understood that or chose to ignore our [the smaller, computer game-oriented publishers!

argument that we could not be grouped with the videogame industry."

The SPA's system of ratings proved to take the more mature approach. Instead of simply bowing

before the knee-terk reactions of Senator Lieberman et al and slapping "age restrictions" on game boses (thereby admitting that games were indeed dangerous — something that has yet to be proved [see related article in NG 10] - and smoly placking numbers from the air), they instead came up with a system that simply explained the contexts of each game, enabling purchasers to make their own, informed buying decisions

Least likely career move: Appoints Howard Lincoln or Tom Kalinske as Charman of the SPA.

Most likely career move: Consesses to support, represent, and monetor the PC same scene.

# THE PLAYERS

**Martin Alper** 

Virgin Interactive Entertainment Orange County, CA, US

Career Highlights: Founded VIE 1983, sold 90% stake to Blockbaster group for \$145 million in 1994.

What's the big deal?: In 1983 Aper and friend Frank Herman (later to be Sign's European boost) set up a company called Placermone, which barged out two or three £1.79 casserse-loading primes a week to a British marked of madhines such as the CEF and Sindar Spectrum. Alprish now bost of one of the most successful and critishly acclaimed selevine publishers in the world—and VIII (book to here made will be infer mores to

paramete a place among the 32-bit cities.
Along the sey Missocronton cold cust to Richard
Brasonch Virgin group, and Alper moved go the Societ
on set up the US office, which place gives the Londonbased Sanopsin (HQ) has divined Visit to rise from the
resists of the situations to solid allogated EA as one of a resist of the situation to solid allogated EA as one of the
form to the situation of the situation with the rimons and TV desicons within the
concrusioners grant Spelling group. The wholly form the situation of the situa

owned, Las Vegas, NV-based development distalon Westwood Studies is also a prize asser. Least likely career more: Let's hope "Beverly Hills 90210" interactive lan't on

the Spelling agends.

Most likely carent move:
There used to be "better" jobs thin being boss of
Virgin freenactive Entertransment, but now Alper can
argue a good case for being at the top of his

### Jonathan Ellis & Ian Hetherington

Sony Interactive Liverpool, England Career Highlights:

Learnings (1991); sold out to Sony in 1993; Wipeaus, and Destruction Derby (1995). What's the big deal?:

The company formerly brown as Poygeosis made at name is Europe in the mrk-Bb is one of the most imaginative as all deventures a software houses publishing for home computers such as Asim's ST and Commoders' Amps. Studies of the Seet, reliesand in 1988, was haided by critica as a buildness and commoned the firm's regustation as a publisher that

operated at the cutting edge.

That all changed however, with the release of learning in 1991. It wants a breakthrough in the threehogds are reso, but the gamely was stratefully original and irratingly affective. So far the original and subsequent suspeals have self inner than 4 reliator units around the world. In 1992 Ells and Hetcherrigton sold out to Soyn reliatory Physiosis as pair of the Sory Discrete, Publishing dynams, and have Seen involved in formalistic for stratery behind have Seen involved in formalistic for stratery behind. Physioson They remain however, very much en charge of game development. In August the company changed its name so Sory interactive.

It will undoubtedly emerge as one of the most probles and innovative supporters of PlayStation they promise that there's plany more where Destruction Dorly and Wigeout came from.

Least likely career move: Strong Saturn support. Most likely career move:

### Strong PhyStation support. Brian Fargo Founder & CED

Interplay
Orange County, CA, US
Career Highlights:
Founded interplay in 1983 Bottischeir (1987). Sold

Founded Interplay in 1983 Bottlechest (1987). Solid minority stake to the MCA/Universal group in 1994 What's the big deal?:

Firgo is possibly the cety CEO of a major geno condense house who writes genes. He is posses of the condense house who may genes. He is posses of project. Establish, his token is the last flare years of the condense who will be a company in a referred to as "Brain's haby". He devotes to garner good strongle for perfection personnels who whole company and in rough the perfection personnels who while company and in the wall down interplay's agents. Here other than not, however, pipers and reviewer age to the product is worth the product is worth the wait. The gest HCA-Chiverson trails in 1974. No distinguish conditions are supported in the condition of the condition of the condition of the condi-

surely a multimalism dealine deal were even disclosed other than the fact that Fingle legs the misjority interest. He consider deals the total Fingle legs the misjority interest. He consider dealine to set the tone. Earlier the year the firm acquired Simp Einsterlamment, the development group set up by Dave Perry (editype) (Davishy Aldedin famely which scored a huge he with its first tide, Earlieveen jim Silviph prassions looks are to add a liveely commercial edge to the lengthpy group and help make the jubilities or sits of each of conceives as it.

already is on PC Least likely career move: Susts, spreadsheets, boardroom, boredom

Most likely career move: Sundamp 2 — but don't hold your breath Greg Fischbach

Chairman & CEO Acciaim Entertainment New York, NY, US

Career Highlights: NSA Jon and Martol Kombat serves.

What's the big deal?:
Accian is probably the most successful (financial), a least) publisher of indeograms in the world. Add PC into the mix and the crown slaps, but on corooles. Accian has been the hit factory of garning for the next few ways.

Fischisch founded the company in 1987 publishing NES games. It has traditionally been a slaveh follower of the mass market formats rather than a chaser of technology. Its specialty is big. braid, overtly commercial and highly successful sideogeness and six rever for away from the most warred Sceness (historically, MVW. The Simpagnes, Semistore 2. Most recently, Salmen Forms and Judge Drodd). It is also been selept as taking the hostness from arcades lette homes, Morad Kensber J. & Z. (man 10 million asks between them) and the MINA has 10 million asks between them) and the MINA has 10 million asks between them) and the MINA has 10 million asks between them) and the MINA has 10 million asks between them) and the MINA has 10 million asks between them) and the MINA has 10 million asks between them) and the MINA has 10 million asks between them) and the MINA has 10 million asks between them) and the MINA has 10 million asks between them) and the MINA has 10 million asks 10 million asks 10 million and 10 million asks 10 milli

Am series stand out. Accism will publish Mertal Kambet IV on Super NES and Generic this full Williams, the company behard jow and Kombox, recently armounced that it will be developing and publishing its own home versions of its arcade games for the next generation itself a move Accism countered by beefing up its own in-house development capabilities and its own branching ext onto CD-ROM and guaring itself up for a heavyweight assault on PlayStation and Saturn it receively set up a joint venture with cable giant Tele-Communications Inc. (TCI) and so is wall-placed in the race so the forefront of electronic distribution its most recent full year financial figures (ending August 31, 1994) showed a turnover of \$481 million - a figure that nearly has been surpassed in the first

Least likely career move: Produce an innoverse same.

Produce an innovetive game.

Most likely career move:

Freduce a bad selling game
Kelly Flock

President Sony Interactive Studios America Foster City, CA, US

Career Highlights: Marketing of San & Morrand Rebel Assest. Designed Shorghor 2. Now heads up Sony's game development. What's the bid deal?:

Few people have seen more sides of this computer game easistry that Kely Flock While working at Activision, he worked on the marketing of Mechanism and later designed Sheights 2. He later moved to LucasFini, later called LucasFics, to work in product development and marketing. In 1992, he took over the marketing elivinion. Now Block working at Sery whare he has the

challenging job of improving the reputation of the company-formenty-browness-tringseach. He says the ledustry is in a juste of charge. "I pee myself focusing more on product." The industry's headed toward massive productions and none enemal synergy. I see repetit running Sony Divelopment for a few more years when sking edit on my own.

Least Likely Career Move: Sony-badged games get any worse. Most Likely Career Move: Ingroves Sony Development for a few more years

Richard Garriott

Founder & Director of Development Origin Systems Austin, TX, US

Career Highlights: The Uhmo series What's the big deal?:

Garnott is something of a character in the development community. He likes to be known as



Lord Breigh, holds havened house days in his Texas resigion, and will apparently don medieval garb at the drop of a helmes. He founded Origin in 1979 and catapulted the

firm to global success with the Ultimo series which has become a amash hit in every major garneplaying country in the world parocularly Japan where there are Librar cartoges, corne books, and even popsongs. The series is now up to eight with episode nine due for the holiday season next year (%).
Garnott sold Origin to Electronic Arts and now has a say in a wide variety of EA's development proje but remains ultimately committed to the Orien label

Least likely career move: Lord British turns up wearing a woven clock and

Most likely career move: The Ultimo series is one of the most lucrative product lines in the history of giving. It certainly



ios, the lerger-than-life head of EA's sent effort, poses for an NG photo accompany his interview in NG 9

**Bing Gordon** Executive VP EA Studio **Electronic Arts** San Mateo, CA, US

Career Highlights-Co-founded EA (1982), Head of EA Studio (1982present day).

What's the big deal?: As the worldwide head honcho of EA Studios. Gordon is in charge of the most prolific and consistently brilliant development resource in gr He has taken the firm from ploneering on the PC to massive commercial and critical success on consoles and now onto CD-ROM and into the need generation. He is still a huge influence on EA's

output, working closely with the producers of each and every title. EA's reputation for being not just the beggest but the best game publisher in the world can be attributed to Gordon's presence from day one Least likely career move-

Norre's Seach Sabe-o-Rama 2 (Hey, we've all got skeletors in the closet)

Most likely career move: Will lead Electronic Area to yet greater glory in the 32-bit arees (and will finally learn how to juggle)

#### Joel Hochberg President

RARE & Coin It Co. Miami, FL, US

Career Highlights: Powerful arcade owner. First non-boaness recovers of envertners from Nincendo. Creased more than 60 8-bit NES games Sold over 7 million 16-bit

cartridges in 1994 What's the big deal?:

Having been involved with com-operated videograme industry, Joel Hochberg has seen ever phase of the business. A young Nolan Sushnell contacted Hochberg in the early '70s for advice after launching a game called Pong

Chris and Tim Stamper began working with Hochberg in 1979, converting Space Imader arcade boards for the English market, Topether, Hochberg and the Statement formed RARF Limited a firm which cressed popular titles for the 8-bit Sinclair Spectrum in the Was Hochberg approached Nimendo's Minoru Arakawa about creating games for the NES. Rare went on to create more than 60 nes for the 8-bit NES and five games for the Super NES including: Dankey Kong Country, Killer Instruct, and Diddy's Kong Quest. Rare sold more than 7 million earne cartridges last year and is expected

to sell more than 9 million this year Least Likely Career More:

Most Likely Career Move: As one of Nittendo's two most favored partners (only Silcon Graphics is closer) Hochbers and Congany will create drive games for the Ultra 64 and Virgani Boy systems.

#### Kagemasa Kozuki President & CEO

What's the big deal?:

Konami Kobe, Jagan

Career Highlights: Fregger, Scremble, Double Drogon Was Ninterviols birrest NES licensee in 1991 following success of

Konami was founded back in 1973, and is one of the few and the proud who can by clean to having "been there from the beancene" Early Korners arrade hits like Scromble and Frogger are every bit as classic as Namen's For Max Williams' Defender and Taiso's Space invoders. And the company's steady success on the home platforms has resulted in a sense of pedigree that few other console-only companies can souni. Konsmi was one of Hiros's Yamauchi's original Nexendo licersees, and the company benefitted enormously Konsmi's earnings exploded from \$10 million in 1987 to \$300 million in 1991, culminating with the runaway success of Teecoge Mutant Ningo Tarties Its success briefly elevated Konamy to eighth

in the ranking of largest software producers in the US (Microsoft remained number one) Kapenasa Kozaki has been with the company from the beginning, having been appointed CEO of Koremi Konyo in 1974. The company's US office



Koneral must work hard to build its sta e major player. Games like Teenage Mo Ninie Turties don't come along every day

reports back to Koba, and Kocaki remans very much at the head of Korarah operations. The establishment of a US development resource (gea up for the production of sports rarres), and the promise of no fewer than 12 PhyStation games in development, would indicate that Konam's glory days aren't recessarily all behind it.

Least Skaly career move-Fregger 2 (sharred). Most likely career move:

Solid, compensive (although probably not soo cutting edge) 32-bit arcide style games.

Gilman Louie Founder

Spectrum HoloByte Alameda, CA, US

Career Highlights: Along with founding Spectrum, Louis created several fight simulations (including the Folcon series) and

designed Super Teams What's the big deal?: When he was prower up, Louis's garants had the

philosophy that instead of buying games they should make them. It seems that Gilman was a chip off of the old block. Always known for simulations. Spectrum HoloByte's first product was a submarine simulation.

The company later licensed the infamous puzzle game Tears: Spectrum HoloByte recently marged with MicroProse to become one of the biggest companies in the mme business I shok the begrest apportunity in the fature

will be online garring. Virtual worlds and communities will become very important. Games are a great way for individuals to become acquainted with each other," comments Gilmen. Least Likely Career Move:

Gets hired as president of Sore Most Likely Career Move: Sendes back into the role as spiritual leader of Spectrum Holoflyte.

## Dracula

Fergus McGovern Managing Director

Probe Software London, England

Career Highlights: Produced more than 450 rames

What's the big deal?:

Despite never having written a line of code in his life. Forms: McGovern heads the breest independent

game development resource in the world. His taken is attractive and increase some of the finest salests to the industry and working strictly to publishers' deadlines — a ranty in the game business

Probe's speciality is turning big name licenses into quality titles. It has done excellent work over the wors for its clients, notably Actium, Sees, and Verse to the last 10 years Broke has produced 450 yarger. In the last 10 years Probe has produced a games which between them have generated \$1.7

Least likely career move: Publishers

Most likely career move: Probe's last 16-bit cart (FVA 'Vo on Super NES) has

just been completed but Probe is already working on 32-bit games that will, in all probability, be as successful as its 15-bit custour

Masava Nakamura

Chairman & Founder

Namco Tokyo, Janan

Career Highlights:

Poo-Mon, Golosians, Die Due, Ridge Recer, and Tekken What's the hin deal? According to Nameo Sounder and chairman Massaya

Nekamura (Namco is acqually an acrorom of NAkarrura's Manufacturing COmpany) "Play is culture" if this is so, then Namco has spread a lot of culture, in the forms of Psp-Mon, Golonous, et al. Nameo was founded in 1955 as the manufacturer of com-operated children's rides, but it

was in the 1970s that a little vallow doc named For Man changed Namoo for good It's now part of videnessing foldore that the enterer researching for producing what is arreably the most popular regame of all time was rewarded just \$3,500 for his efforts by Nakamura. The engineer left the

Namon's foud with Namendo is almost as endary. It started in 1981, when Nakamura learned that it would lose its favorable developer taxus from Nintendo. Now Nameo is firmly allied with Sony. Go Enurs

Least Likely Career Move: Grovel to Nystendo for a U64 developer's license

Most Likely Career Move: Uses the PlanStation as a vehicle to re-establish Massen's position as a rawles requestrouse.

Larry Probst President & CEO Electronic Arts San Maten, CA. US Career Highlights:

Joined EA in 1984 as VP of sales and distribution.

What's the big deal?: Service Product in the boss of the beneat reddinger of enteractive entertainment in the world. He took

over as assertion when the Erris founder Tex-Hawkins decided to go and chase the dream with 200. The worry was that with Hawkins would go the creative area and entrangenerial sount than defined the company. Four years later EA is still at the rop of the rope. Profest may not be as colorful a character as his predecessor but he does seen adore at combiners the freedom and discount of creativity with the restraints and common sense of

Least likely career move-Try and establish a clobal standard interactive

Most likely career move:

Tom Zito

Dweldent **Digital Pictures** San Mateo, CA, US Career Highlights:

The most controversial game of all time Night Trop (1992). Best-seline entertainment CD-8OH of its timer Sever Shork (1991). Producer of 20 PMVbased games released so far and counting.

What's the big deal?: It's a sure bet that Tom Zito's Digtal Pictures will outsers the delices boar bestowed upon Nett Trsp, and the hollowness of Sever Shark's success

(the game was remarkably poor). But notonety and skeletom in the doort are small the once of pioneering. Zico would no doubt say, and those two pries are a lone way back in Divital Pictures' part. Love or hase most PMV-based games (and -it has to be said - most rarrers have them), it's impossible to deny their salability. The genre has continually arruptled to useful pself through fre weather (the whole "morging of Hollywood and Silicon Valley" hype) and fool weather (the first fruits of the ill-advised marriage). But survived it cortainly has, with many game developers just now beginning

embarked upon five years ago. Least likely career move: Note Top 2

to start scaling a learning curve that Digital Pictures Most likely career move: Interactive TV (if and when it over happens)



Digital Pictures' President and for Zito, the industry's major pic evengelist for FMV in games

The Hunt Continues











PILOTS HAVE FLIGHT SIMULATORS

## LINEBACKERS HAVE THIS GAME

FLUID 3-D MOTION CAPTURED ACTION SUPERIOR ARTIFICIAL

INTELLIGENCE REAL TIME SCI

RENDERED GRAPHIC

ALL 30 HFL TEAMS REALISTIC PURSUITS

PLAYER BEHAVIOR

ANGLES

FLYING HELMETS





"NFL FULL CONTACT" GAME TIME:NOV.19





# BACK

Ken Kutaragi Director R&D Division Sony Computer Entertainment Tokyo, Japan

Career Highlights: Designed the PlayStation chapses.

What's the big deal?: Ken Kuszezer has been with Sony for more than 30 years, and he first disped his too into the world of videogrames when he designed she abortive Sony CD-ROM add-on for the Super NES. The PS-X PlayStation project give him his second chance to create the slorate game machine, however, and many people around the world would say without

doubt that he has succeeded The objective was a hirt-performance, lowprice videograms system which also had a deagn that was easy to write games for" reveals Kutaram "The technology came from an original idea to create a synthesizer for graphics; something that

takes a basic prophic and then adds various effects to it quickly and esaily Work on the project didn't entirely go without schedule-induced incident, however "At the

peak we stayed up all right for several rights in a row. We couldn't stop working because our work. was so interesting. The only problem was that our office in Alsaska didn't have a both in it. One of our Life on the cutting edge, ladies and gentlemen.

Least likely career move:

A 32-bit, "portable," "Virtual Reality," urs, "thing," Most likely career move: in answer to "What new features would you like to see in PhySocion 27," Kuorragi replies, "Two shings. One is higher performance in computer graphecs, which benefit from faster and more compact



d as the most complete and well

menation of Shoor Wishin 10 years we will see vivid computer graphics on a TV screen which are generated by 0.25 micron silicon. This enables us to of 10 cycling polyeous a second. That is equivalent to a mone-quality mage. But the most important think is that during the next

#### few years there will be widespread use of highbandwidth communications, which would be a feat of future versions of PlayStation technology RJ Mical & David Needle

Vice Presidents & Fellows The 3DO Company Redwood City, CA, US

Career Highlights: Inventors of the Arriga, Lynx, and 3DO.

What's the big deal?: It's true that of the machines that Mical and Needle

mass market his alone the lines of the NIIS or Genesis. But it's only fair to put forward the argument that this is down to the marketing of the machines rather than the quality of the product. Take the Laws, technically the best hand-held console seen to far, but trashed by Nimendo's Gameboy through prione, marketine, and software support. And IDO, when it was first seen four years are, was a most step forward - it only started stumbling when the men in suits got hold of it.

Least likely career move:

Most likely career move: Recognition at retail for consistent brilliance in R&D would be non-

#### Gumpei Yokoi & Masayuki Uemara Heads of P&D

Nintendo Kyoto, Japan

Career Highlights-Invested Game & Worth, GameBox and Virtual Rev (Yokoù, Created NES and Super NES (Uernara) What's the big deal?:

Yokor and Ummara were the RAD cheek that rook Mintendo Into the age of interactive entertainment and dragged the rest of the world with them. They made their name in the domestic market with gimmicky toys such as The Ultra Hand (simply a mechanical proping device) and The Love Tester (a couple held hands while their free hands grapped the handle of the Tester which measured how much "love" was passing between them)

In the early '80s, however, respect by machines such as Atari's 2600, the two turned to videogrames. They headed up pay security resess Yokey's dubles (R&D I) came up with the Gameboy and many of Nintendo's begreat software hits. Uemara's tea (R&D 2. surprisingly enough) brought the NES and Super NIS to life. The NES remains the begrest selling game machine in history. More recently Yoko: has been behind Virgual Boy (and some say blots have been introduced to copybooks for the first time) Neither two were evolved with the development of



It le rumored that Gumpel Yokel's tion helped him steamroll Virtuel Box through Mintendo's verious objections

Least likely career move: Produce a flawed, granacky, and altomately unsuccessful hardware platform, um, like . Most likely career move: Vertial Boy The next big thing!

#### Sim Wong Hoo

Chairman & CEO Creative Technology Ltd. Singapore City, Singapore Career Highlights:

Creative Labe' SoundBlaster, burnched in 1990, has now sold in excess of 15 million units worldwide

What's the big deal?: The flevible uneradicable conurs of the PC has enabled the growth of more than suct a few billion dollar spin-off companies. One of the single most successful of these is Creative Technologies, the Singapore-based parent company of Creative Labe the outle responsible for the SoundBlaster range of

PC sound cards. Founded by Sim Wong Hoo in 1981 with just \$6,000, in 1994 Creative had its first \$1 billion year and now employs 2,150 people worldwide Soundbluster accounts for seven out of 10 sound card sales - a market dominance and penetration that few other companies in any industry can come close to matching (Mr. Gates & Co excepted). Mr Sim was named Singapore's Businessman of the Year; and in 1993 was presented with the ASEAN Achievement Award for his accomplishments in information technology But Creative's biggest success may still be to come. The graphet accelerator card based on a derivative of the highly acclaimed Glint dyp, 3D Blaster is set to launch late

this fall. If Creative can achieve the same level of success with 3D Blaster as with Sound Blaster, then this success story is far from finished vet. Least likely career move: Creative's marketing, distribution, brand awareness, and sales momentum fails to make the upcoming

Most likely career move-Mr. Wong Hoo has to buy a larger house to accommodate set more awards



ry, The Lengue of the Crimson

into the exciting world of

55008-671-0

The Bestselling Computer Playing Games of All Time.

## **Spellbinding Novels From** Today's Hottest Games!

"... pure gothic, ghoulish fun!" Rick Hautala, author of Twilight Time and Shaden of Night



Hall: A Cyberquek Theiller-A Novel Chet Williamson

Everything from plazooz fecial reconstruction to owning a VR unit can go you time in Hell in this hand-bitt elternative ection edventure novel that's dafinitely NOT for the faint-of-heart. Based on the Best-Salling Game Starring 7615-0069-2



#### The 7th Guest-A Novel Matthew J. Costello and Grald Shaw Gardner

Six guests venture to the Stauf Mansion one desperate night. Each such is certain Henry Stauf will be the instrument of salvation. Nothing could be further from the truth. Based on the Million-Selling Prequal to The 11th Hour!



#### The Pandors Directive

World War III begin? The trail from there. This noir/SF thriller stars Tex Murphy, the gumshoe UNDER A KILLING MOON in his

7615-0068-5



One of the most compelling and critically acclaimed science fiction games ever comes vividly to life in this adaptation by Bruce Ballour. \$5.99, poperback



Protous is an imprint of PRIMA Publishing





oute software (19

## THE GENERATION?

**Dean DeBiase** President & CEO The ImagiNation Network

Burlingame, CA, US Career Highlights:

Hore than 60,000 gamers were agned up on the INN as of July 1, 1995 What's the big deal?:

The ImagiNation Network is the world's first game only online environment. It was bunched on May 6. 1991 as the Serra Network, and subsequently charged its name as the result of a deal with AT&T (which took sole passession of the network on November 15, 1994). Now (although 60,000 subscribers recresses only 2% of America On-Line's 3 milion subscribers) its 167 employees have an valed experpse in the field of online earner, a

field that his to be seen as a high growth area. Quite how ambitious Dean DeBiase and The imagiNation Network's challenge will be in the face of a decicated "Games Channel" from AOL and whatever earner applications Bill Gases may have dreamed up for his Microsoft Network, is a question for the money men at AT&T.

Dean Debiase and The ImagiNation Network disappear without a trace

Most likely career move: The Network continues to expand as online garring. continues to grow

**David Guldbrandsen** Head of technological development,

Scavenger Los Angeles, CA, US

Career Highlights: Sub-Terrana (1993) and Red Zone (1994)

What's the big deal?: One of the fastest up-in'-corners in the game industry is Scavenger, an LA-based games producer with only

two real hits (and especially the excellent Thrust-clone Sub-Terrang for the General) to date. But further success is almost much guaranteed, looking at the company's line-up of forthcorning 32-bit releases (for more details see page 161). Daniel Small is president of Sowenger, and leads a selection of talent from all over the world. Many of

the demo coders of the early 1960's Arriga scene (a

prolific strain of the hucker gene) are now employed as reachic specialists. One of these Europeans is David Guidbrandser, who heads up the technological development for the entire range of Scaveneer's tries As head of this creative melting pot, Guldonavisen is responsible for some of 1995's most exerting software - software that not only looks great, but actually

## CONNECTED



1950's was Cataguit's X-Sand modern for the Genesia one

Adam Gross President Catapult Entertainment Cupertino, CA, US Carner Highlights

Launch of XBand modern for Genesis and Super NES (1995). What's the big deal?:

What's the billy deal?. One of the sight must account phonous in home videographic case in the form of One of the sight must account phonous phonous

(with subsequent preventiley charging), it's no surprise that support has grown to more Adam Grosser heads up Catagoth Enterturment formerly having been sensor VP of New Media at Sony Promes and having served time at both LucusArta and Apple Camput Erzertamener: a part of the ever-growing Blockburser empire, and looks set to move into the manstraren of 31-bit garring with Xiland networks planted for both

Least likely career move: Misses the 32-bit explosion and Isranches its PhyStation network in 1998. Most likely career move-

Proves to be one of the few true killer ages for the whole "online" expenses. Redefines

(get this) plays great, too. Into The Shodows, an SVGA. a couple of 32X sitles ("The 32X is a great machine,

but it just didn't happen," argues Small completes Scarenger's 1994 line-up.
"There are occole in this office for 24 hours a day, seven days a week," explains Small, "It's a blestyle. This len't a lob. You don't do this kind of work if Ir's not your life." But just looking at the quality of games

dedication is paying off Most likely career move-Georgic movie Serios.

seen so far it would seem that Guidhrandson's Most likely syress many A force to be reclosed with in the 32-bit age

Scott Mille President Angue Software Productions

Texas, CA, US Career Highlights:

Costin Whitestern, Michestone, Consequence Keen, and

Rise of the Triad What's the big deal?:

Despite the commercial success of Apagee titles him

Commander Keen and Costle Walterstein, Scott Miller's here for another reason. Miller's biggest accomplishment is in marketing as he rakes enough for starting the "Apoggo model of marketing." He believes you should "toroubee conceners with 10 free levels, than real them in with two additional annodes" Yes o'r the designation of the charmen system of software distribution that helped make lid

Software the research of it routes Along with a growing line of successful shareware titles, Apogee receivity created the powerful Build Engine, which it licensed to Capetone

for the more Teknor. Least Likely Career Move: in both of Caste Walfestein's desiral performance on

the Azari Jaguar and Nintendo's Super NES, Miller saurus very unlikely to devote much time to developing any cartridge games Most Likely Career Move:

Will expand his forey in game engine design.
Continue to exploit the "free" distribution that the Internet and disk-swapping enables

#### Jerry Wolosenko

Vice President, Sales and Marketing Looking Glass Technology

Cambridge, MA, US Career Highlights: Developer of Clack Yearer's Advanced Flight Traver. Ultimo Underworld I and II, Links Pro. Publisher of

System Shock and Flatt Unlimited. What's the blg deal?:

Looking Glass isn't just another new matemeda/game company. It's earned the honor of bette dublind by many as the "next big thing," having developed highly successful excess for Electronic Arts and Origin from name just two). Although founded by Paul Neurath and Edward Lerner, it is jerry Wolosonko who perhaps best represents the company in 1995, as vice

president of sales and marketing Loolong Glass Technologies published its first me, Flight Unionited, earlier this year and its safe to cay that (as long as you have the system nower --

THE **PIONEERS** 



lark Long & Joanna Alexander

Co-founders & VPs bie Virtual Reality Entertainment

mond, WA, US

Former members of VPI, Guron Lamer's pioneening VR, group) Founded Synthesic E What's the big deal?:

Alexander and Long decided to try their hand publishing virtual reality garess while working for the Symbatic Environments Group at the Surrolf Research Center. They had already worked on the Lagrant videograpes of them all debriefing Needs fighter pilots and Army nupriors when adors to

Drawing on their technical backgrounds, Alexander and Long set up Zombin, one of the bright new years of computer garring. Locus, its flagship VR product, is shoot for glory come its release the fall. Long and Alexander have also deviced VR equipment for other exercisionest computers, in this amenging field of software for home VR, Zombin is defining in the perfect possible to.

Least Likely Career Move-

Most Likely Career Move: tes the killer software for the future home VR system that Virtual Boy should have

456 won't cut it) there's never been a better fight. sirrulator created for horse use. Torre Nove, the company's second mane is hothy arricipated and news. that Looking Glass was working with Viscom to

produce a "Scar Trek: Voyager" game was greeted with joy from both game fans (the end product could actually be quite good) and "Star Teek" fire title end product could, aftern actually be quite good) after The company's commitment to quality, and an idealism born of seeing its aims published ito varying

degrees of success) by other people for so long places Looking Glass well set to become a major player in the 32-bit world.

Least likely career move: The company returns to being a no-name developer of games for other people's publishing labels.

Most likely career move: Success in the 32-bit world and beyond, and very possibly a few new flying games



on Carroni's Surier Street Vigieta in 19. 17-120m Poolus Pack. Tight in modern or tunck a trunk across the countris using Cataput's X'bandri/ (so on-time and sour brain will thank sour











#### IN TODAY'S WAR BE IT APPEARS ONE SIDE HAS



## TWEEN 32-BIT SYSTEMS, SAINED AN UNFAIR ADVANTAGE.

## FUNNY, WE THOUGHT WE WERE JUST MAKING GAMES.







It a system is only as good as the games you play on it, we hope you got the PlaySalion. Because according to critics, these are three of the best games out there, regardless of the hardware. To find out more, grab us on the web at http://www.namco.com. Better yet, grab a box.



# nd they will come. hen you can



Forget about fields of dreams. with The Horde, it's more like little slaughter-house on the prairie.

See, we've injected arcade-style. belly-slitting fun into that

sleepy-ass commune you call home. And between digging death Dits and hiring archers, enjoy some

serious, gut-popping swordplay. Cause man, these neighbors really bite!





Available on Sess Seturn".



NEXT Generation's biggest-ever previews section



This month's massive alphas section is extremely varied, packing limit pushing RPGs, three baseball games hoosful conservors may see the ore Flatter 2. Virtus Cop 2, and Seps Rally. For reviews of games currently available be sure to check finals on cape 168.

#### 82 Daggerfall N

Sega Rally SATURN

S.T.O.R.M. SATURDAPEN/PEX/PG

102 Road Rash saruen

104 Shockwave Po

106 The Strike Series HULL

constion with Colonsel Pictures 110 Shredfest row/sk

115 Chronomaster R

119 Virtua Fighter 2 seven

Seea's triumon brought home: More fighters. moves, and polygons, polygons, polygons



130 Descent... Po

136 Indy 500 arrang

141 Virtua Cop 2 AREADE

shooter may be too close to the original 146 BattleSport sop

151 VR Baseball BATURE

does it have what It takes to win? 152 3D Baseball SATURE

on with this graphics-heavy diamond-time

154 Final Arch SATURE

157 Shining Wisdom SATUR

"blg-headed" advertures to Sabum

161 Scavenger PS-X/SATURE/PG If you've got a game machine, it's likely shat these

guys have got the titles you've been looking for





## **Daggerfall**

Format: PC Publisher: Bethesda

Developer: Bethesda Release Date: November Origin: US

Almost two years after the release of Arena, Bethesda is preparing an epic sequel that has the potential to change the world of PC games forever



growth that's taken players from the basics of text-only environments through the wire-frame halls of dungeons to today's hybrid titles attempting to pull in new gamers by adding arcade



action to the mix. All of that is about to change. In its upcoming epic, Dangerfall, Bethesda has done nothing short of creating another world. inhabitants, cultures, and diseases: one in which you

are encouraged not so much to solve a quest, but to explore, to create, and in short, to five. Dasgerfall's plotline is much more complex than those in your average retrieve-the-sword or rescue-theprincess role-playing games. Basically,





several stories go on simultaneously, and depending on what kind of character you are, and where and when you end up in given places, you determine the one in which you'll get wrapped up. In the citystate of Daggerfall, a king looking for vergeance returns from the grave with an army of undead: Waverest, a mountainous, far-east land, is a town plagued by orcish border incursions and infighting among the wealthy; and in Sentinel, a queen attempts to bring peace to her war-torn land by arranging her daughter's wedding. Even with all of these events going on, it's easy to get so completely involved each town's local events that you may never even know they're happening.

You will soon be wrapped up among the backstabbing dances of guild leaders, mages, faerles, temple leaders.







knights, nobles, and even secret societies, in which subtle political changes occur in each village. Your character will have a separate reaction score for each one of these groups, scores which change throughout the game as you befriend new people, anper others, or even make friends with another's enemy. Merely navigating the diplomatic labyrinths of each kingdom is a game in and of itself, and the changing reaction values insure that every game you play will be different after only a few hours. Variations in what kind of character you play, and how you personalize that alter-ego, will affect every other event from the very beginning of the story.



The first thing that is noticeably different about Daggerfall from its predecessor, Arena, is its improved character creation engine. As in the first game, players can choose from a list of individual classes that range from basic choices such as longht, mage, and thief; through the more exotic selections of acrobat, assassin,



bet. In many cases, you must on servive on will so





at the of spon lan't too so

Bethesda

net to stay fo and sproerer; to hybrid selections like

matthlade and ranger And for those who want a more personal creation, Daggerfall also includes a questionnaire providing players with a set of moral choices, and then chooses a character class for the player that best suits his or her temperament. If this still isn't enough, players are able to personalize their character even further with the new class-creation system.

Daggerfall's class creation routines enable players to not only get a chance to build their characters exactly. as they want them, but also to get a look at the complex inner workings of the game. If you want to take on the role of a nontraditional RPG character. the interface enables you to name your new class, select from a list of 38 different skills (including such diverse talents as medical, etiquette, disquise, back-stabbing different colleges of magic, and different languages), and then choose disadvantages to balance out your new archetype. The system is both easy to use and completely open, so it's easy for players to jump in and create the kind of hero that they've always imagined in a fantasy realm.

Once you've built your character. you're ready to go exploring in the mind bospillraly massive world. Much like Arena, adventurers in Daggerfall can spend countless hours exploring a world has done nothing short of creating another world, one with its own inhabitants. cultures, and diseases: in which vou're encouraged to explore. create, and

in short, to

live



The people you meet or the street show a great deal of variety, not only in look, but also in attitude and helpfulnes that seems big enough to be real. And quite unlike the earlier title, there are so many expalsite details placed into the pages of the third page. The earlier that the page that the page that the page that the real title. If you wisk, you can sit down by the bank of a river and just watch and listen as the sparkling water readhes by, or look up at the sky and see the cattern's in the clouds.

Combat options show the same level of realism, providing options to learn the language of some of the

land's 40 different creatures and become affels. The field storch of realism is the garm's memory, which will enable the son of all enablysing chimicate; which you happed in the distant past, to allow the son of all enablysing chimicate; which you happed in the distant past, to allow the son of all enables of the position of the position of the position of the son of the

No.



larly sketch work and meester concepts show some of the creative feel the he design team was aiming for during the early stages of development

placed into the game that it's as easy to get distracted from your true purpose as it would be in real life

There are so

many details



Scores of different positions and weepon stances ere used in each monster animation

If Bethesda manages to bring all of the parts of this title into a playable whole, then Daggerfall will be the best RPG

ever made



The three-dimensional feel and look of Daggerfal's dangeon lovels can be nessewhat discriming, especially at first, but this effect adds a new level of resilien to the game

If Bethesda manages to bring all of the parts of this title into a playable whole, then Diagourful will be the best role-playing game ever made. The idea of a completely immersive world in

which players have true control over the lives of their characters creates play opportunities that have never even been broached before. The main question left though is whether or not consumers will be willing to enter into the traditionally poor selling RPG market to



moces soons can lead to more treasure end inseeledge, but they may also conceal nome very easty surprises

experience the open-ended game form.

If so, then it's possible we may see future titles that will take players not only into new fantasy realms, but into adventures that take place all

over time and space....



When traversing long distances, players can bring up a special travel map that will combine them to evoid the tedlem of residing awares (shous)

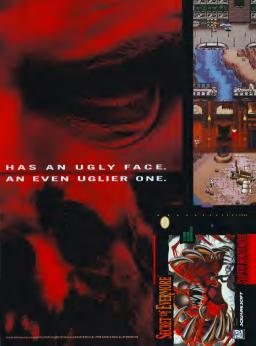


previous, the land of Torzi is hig enough that most advecturers will cely see a fraction of its total erea



Expanded imagic rules will enable players to craft sed east their own spalls from a hage list of effects, as well on having the capabilities to feeling their very own potions





## PONT GET MAD, GET PO'ED

Your ship has been overun by alens. Your comaides-in-arms have been captured.

And your soutile has been ruined. What do you do?

Grab your jetpack and rocket launcher and fry those suckers!

Pushing the bounds of 300 technology,PO'ed injects you into a bully-rendered three-dimensional world and presents the most exciting and fast-paced first person gaming experience available for home videogame players.





Complete 6 degrees of freedom in a vast 3D world
 Extremely fast-paced seat-of-your-pants action

- 10 territying and truly ugly monsters

Multiple weapons of destruction and gore to choose from, including "Missile-cam"
 Non-linear level connection of over 25 different, beautifully, texture-mapped, exotic alien environments

- True physical motion modeling for smooth and intuitive controls

ANY CCCC CHANNEL

300 and the 300 logo are trademarks of The 300 Company, Any Channel, the Any Channel logo, PO'ed, and the PO'ed logo are trademarks of Any Channel log. PO'ed (c) 1995 Any Channel log. PO'ed

## Sega Rally



here's no denying that AM3 did a marvelous lob on the Sega Rally colo-on. It's a prime example of what Sepa does better than anyone else; design fast, stunning, and

thoroughly engressing arcade simulations which combine wooderful practices and concerns playability The Saturn conversion makes its debut at the end of the year and is being coded with the help of AM2's improved 3D libraries to maximize the number of polygons on-screen and prevent the

same degree of scenery "ego-up" which Sega Rally is promoted criticism of the Seturn. an example Daytona USA conversion. So far at least, it looks like it will be a more of what Sega impressive driving experience. Although the graphics clearly have a

long way to go to match the coin-op's detail-nch environments, there's still a lot more work to be done. But as with Daytona USA, the Japanese press is maletaining that the original game's primary strengths - its control and overall feel - have been admirably replicated. Quite how much the conversion will suffer from the lack of the coin-op's superb reactive steering wheel Isn't yet known.

Expect a more thorough look at this keenly awaited racer in a future issue of NEXT Generation

The definitive arcade off-road racer is Saturn-bound, But will Sega's coders steer clear of the potholes that dented Daytona USA's credibility?

Format: Saturn Publisher: Sega Developer: Sega AM3 Release date: December Origin: Japan









does best design fast. stunning, and thoroughly engrossing arcade simulations



"The best reason to own a PlayStation"

- Ultimate Gamer
"Wild, stomach—twisting driving"

- Game Pro

"With WipeOut, the future really is now"
- Die Hard Game Fan

- 6 real-time 3D tracks
- 8 Anti-Gravity craft - Multiple strategic weapons
- · Link-up cable option · Cool sounds & FX
- · Totally killer graphics







PLAYSTATION: OCT. 20th/PC CD-ROM COMING THIS WII





Also available on Macintosh CD-ROM Digital Pictures: 1 800 332 0032 Web Site. http://www.digipix.com E-mail: digipix@digipix.com



## S.T.O.R.M.

Format: PC CD-ROM PlayStation

Publisher: American

Softwarke Developer: Virtual Stur Release Date: December Origin: France

ne of the most promising, if little

onto the score in a while is American On the surface, this three-CD opus looks to be a platform shooter with excellent graphics. In reality though, S. T. O.R. M. could be something significantly more

Against a backdrop of an energystarved and dismally polluted Earth, the plot puts you in control of the S.T.O.R.M. an experimental sub-sent to investigate an explosion at a deep-sea. station. From there you embark on an undersea quest that can dramatically after the planet's future

The gameplay elements vary. There are first-person exploration sequences aboard the S.T.O.R.M., and sidescrolling action sequences in which you play one of the three aguanauts aboard

the sub. This isn't an Infocom or Sierra level advecture, but there are some definite puzzles, most of which aren't too difficult. Many obstacles across the 27 levels have multiple solutions, with some interesting consequences. For instance, in one area, you can choose to fight or avoid combat. Neither way is more correct in the same, but if you fight, the blood attracts sharks, with whom you must then deal.

Another likable element is that each of the three characters aboard the sub has different characteristics — who you send on a particular mission can dramatically after the course of the name. You also have across to a sophisticated computer, Annessa, who

offers advice before missions. You don't have to follow her advice, and, in fact. there are times when you shouldn't.

Can Virtual Studio take the moribund side-scrolling action game into the next generation?





Virtual Studio's graphics are fantastic. The side-scrolling elements convey greater detail than a pure firstperson game; enemies scale up from the background, and don't just enter on the left or right, a technique that's appeared in only a few games (like Yashi's Island)

In this melding of discreet types of gameplay ASC attempts to make the total prester than the sum of its parts. It hopes to end up with a story-driven game both playable and fun. We won't know whether it has pulled it off until we see final product, but what we've seen so far looks very encouraging. Successful or not, it's efforts like thes that will establish a new 32-bit gaming paradigm.



## WELCOME THE



#### Weapon I - Specialized Joystick

- Turbo speed feature heightens your ability to punish
- Auto/Turbo feature designed to maximize firepower.

  Arcade control (microswitch technology) with 8 button layou
- Rugged steel control stick and base.

  Slow motion feature and extra long cord.

# PlayStation.





CHOOSE

# ARENA



Your reputation is on the line. Let's face it - having your head handed to you in a contest with your 12-year old cousin is about as humiliating as getting caught staring lovingly at your shon teacher. Get medieval on 'cm! And ommand the worship you deserve! These Revialized controls give you the power to stomp not only your cousin, but my wannabe foolish enough to #1/@! with an Immortal like you!

### YOUR WEAPONS WISELY

#### Weapon II - Specialized Control Pad

- A 360° control with directional dis A soc control min arrectional unce.

  Ergonomically designed controller molded from ABS plasti

  Turbe switch with 30 shots-perspecond flying power,
  configurable to all 8 action buttons.

  AutoTurbo delivers infinite stream of intense firepower.
- 11' Slow motion switch and extra long cord.



1995 ASOII Entertainment Software, So. ASOI MARTÍN D. a l'extensed Tedebeart et ASOII Entertainment Software, Soc. For Continues Software, Soc. Pt. Res. 6610, San Matin, CR. 94403, (415) 789-8184







ASCILWARE

#### You've Got Just Enough Time To Save The Galaxy . . . If You Play Smart!

- Your elite ranger force is on a critical mission: patrolling the outer reaches of the galaxy. Like rangers of the old west, your primary responsibilities are upholding law and order, and protecting the galactic citizens. You're armed with the latest weaponry and flying the finest 23rd century starships. But time is not on your side!
- You're thrust into one life or death mission after another and you've got quick decisions to make. You can hyperspace across the galaxy to protect a distant base . . . but will you have enough fuel to return to protect the closer ones? And how many enemy ships are attacking your other bases? Can you get there in time?
- A detailed galactic map helps you ID enemy strength and positions, as well as navigate through the galaxy to engage the enemy in one heart-pounding battle after another. But in Star Rangers, you've got to shoot straight and think smart. The citizens are looking for a hero . . . could it be you?









@ 1995 Interactive Marin

E-mail - 75162.1202@CompuServe.Com On Line - On CompuServe, GO GAMBPUB (Library 17) INTERACTIVE MAGIC • PO Box 13491 • Research Triangle Park, NC 27709 • Phone (919) 461-0948







ELECTRONIC ARTS



#### "We see farther."



campaign. Headlined with the slogan "We see farther", it was the first time a games advertisement had featured software designers. And it was one of the very first print advertisements from a small start-up company called Electronic Acts.

In 1982 W. M. (otherwise laroom as tripp Hawkins identified a layer from staffer. I build or gimer and upon from staffer. I build or gimer and upon from staffer. I build or gimer and computers. So Hawkins (then a marketing searchite at Appl Computer and a small group of associates started to Electrican Fart with just let memployees. Two years later, Electronic Art's Stylov test lessigned for its experience became a number-one bestednice By 1946, the company had become the market one developer electricities of the staffer in the III. See the electronic and the staffer in the III. See the electricity of the properties of the staffer in the III. See the electricity of the staffer in the III. See the electricity of the electricit

emercialment sortulare in the U.S. Making a key strategic discasen, Electronic Arts established a direct sales force, thereby sidesexpling the labyrinth of third-pairty distributors favored by competitors. That sales force highed track consumer trends, inventory, and demand — crucial inflicators in a market considered both finisky and fest moning. With its floger on the pulse of the market, the company continued to grow and presper Taking advantage of fluxes in demand, it quickly developed tibles that became commercial success — titles like John Machon Football in sports, Starflight in adventure, Chuck

Yeager's Advanced Flight Trainer in simulations, Delure Pairt in creativity, and Photail Construction Set in arcade. In September 1989, Electronic Arts weet public with a market depitalization of passancements 490, dellar.

went public with a market capitalization of approximately \$84 million. Expanding elobally, Electronic Arts. opened branches in Asia, Europe, Australia, and throughout North America, Appressively serzing other congrupties, the company also acquired Distinctive Software (which became Electronic Arts Canada, the developers of FIFA Soccers, Origin Systems (the Texas-based developer of the Ultima and Wing Commander series) and Bullfrog Productions (Peter Molyneux's development company based in Surrey, Fingland). In September 1992, Electronic Arts joined with JVC's subsidiary Victor Musical Industries Inc. of Japan to form EA Victor to oublish EA's games in Japan.

But the "software artists" featured in the original "We see farther" ad have now been supercoded by game makers dedicated to the 32-bit age. And in this special section sponsored by EA Studies, their work is profiled for the first time.



## **That**

## was then...



## **This**

## is now



oday Electronic Arts and its Affiliated Label companies have million units for personal computers

and home entertainment systems. Over 248 titles have each generated more than \$1 million in sales, and 69 titles have each generated more than \$5 million in sales. Winning over 600 awards for creative and technological quality and market appeal and innovation. Electronic Arts is behind only Sepa and Nintendo in its bid to become the world's leading provider of interactive entertainment software.

EA Studios is one of Electronic Arts' five publishing labels

the others being EA Sports, Jane's Combat Simulations, Origin and Bullfroo, EA Studios believes that its charge is to leverage its roots in EA to create technologically superior products for multiple platforms. In its own words, "The group is made up of talented and creative interactive entertalnment professionals worldwide with long histories of creating committed to building on these successes in the future."

The division is in a strong position to achieve its aims. Bing Gordon, EA's head of production explains, "For Peter Molyneux (Bullfroo), Don Mattrick CEA Canadal, Richard Hilleman Forksingtor of John Madden Football). Pirhard Gariett (Orioin) and Scott Over [EA Sports], to be able to get on the phone or video conference and talk over an issue and share technology there's an advantage that no one else has and no one else is likely to get."

The games featured on the following pages are EA Studios' current portfolio of forthcoming releases, and the fruits of its quest for quality so far



#### the 32-bit generation



102 rashing

The classic 16-bit racing game heads out on the highway for its second 32-bit appearance

shocking

for its debut on multiple new statforms

Shockwave Assault & Shockwave 2 The 300 hit gets a graphic and gameplay overhaul

106 striking

The Strike Series

Attack hehicopter-powered arcade action based on the successful 16-bit Scrike series

108 detecting Psychic Detective

EA Studios' first attempt at creating an interactive movie, in collaboration with Colossal Pictures

110 shredding

Snowboarding action in a Road Rash-style racing

## **Road Rash**

Format: PlayStation & Saturn
Publisher: EA Studios
Developer: EA Studios

Release Date: November (PlayStation) Winter (Saturn) The 16-bit and 3D0 motorcycle-racing classic gets its motor running, and heads out on the 32-bit highway for a second time



Representing Team Road Rank Rendy Diller (Software Engineer), Jeff Smith (Art Director) and David Stelon (Lead Programmer)

The Stoof Shah 22-bit teem consists of a core group of 4 angineers, 4 artists, 4 course designers, 2 grass designers, 3 surfa engineers, 4 production team of 3, and a large group of transland transform who week join the teem for explaint from a weak to a couple of reactive to help cot in specific crees. During rivino well posts about the reads would were with EA employees and friends who could take the day off and try their choose ong set 15 structure of videograms carteries. f EA Studies' upcoming
32-bit releases, Road'
Rash and Shocksore
Assault share the
citatinction of having
already appeared in
32-bit form. But although both games

arready appeared in 32-bit form. But although both games have enjoyed success on the 3DD, Road Rash for PlayStation and Saturn will uniquely benefit from the additional heritage and pedigree of having been

born of a bona fide 16-bit classic. Road Rash was initially released for the Genesis in 1991 to transardous critical acclaim. And EA Studios is planning for the same back-to-basics playability and concentration on saxeepiley that made the original such a hit to form the backdone of the same?

two newest versions.

That's not to say that the two new titles won't make use of 32-bit technology. Higher frame rates, more intricately detailed courses and — of course — a complete graphic overhaul are planned. Real bities, real riders, and real obstacles were taken to a studio to





One of the higgest differences between 16-bit and 32-bit Road Rust in th

TUDIO

EA Studios is

planning for

the same

playability

that made

the original

Road Rash

form the

these two

new 32-hit

versions

such a hit to

hackbone of

and gameplay

hack-to-

basics





images of real-world objects and people to be incorporated into the gameolay. But perhaps the greatest difference will be found in the audio department. The potential for stereo, CD soundtracks that the 32-bit systems bring to the party is being evoluted to the may FA Studios has secured a deal with A&M Records to incorporate soundtracks and videos from some of its top acts into the game. The bands Paw, Swervedriver, Therapy?, Monster Magnet, and Hammerbox will each provide between one and three tracks, while Soundwarden will provide four. The bands' music and videos will play between races.

"The design challenge behind Road Rash was to merce the energy and presentation of music videos from alternative rock bands with the action of great videogames," claims Randy Breen, the producer of Road Rash. He believes that "The A&M Music bands chosen for Road Rash have a musical style and

attitude very similar to the feel of Road Rash." What's for sure is that

racing through cities, carryon rurs, and country backroads will owner have felt as realistic The 3DO version was a lean above 16-bit, and these two new games are better still. "The classic Road Rash game for the Genesis proved to be the world's favorite motorcycle racing game,"

Breen remarks, "but the synergy of sight and sound found in Road Rash for the PlayStation and Saturn will create a style and standard of presentation second to none."













## Shockwave 2 & Shockwave Assault

Format: PlayStation, Macintosh.

300 & Win 95

Publisher: EA Studios Developer: EA Studios

Release Date: November (Macintosh PlayStation & Win 95) December (3DO)

Origin: US



The year is 2019 AD. Time for a heroic F-177 pilot to single-handedly save the world from an alien invasion force



rbiting earth is the UNS Omaha, the world's first alreraft carrier in snare. The experimental space platform has been

operational testing of the new F-177 space fighter prototypes. But someone is out there watching, and waiting... Thus beains the story behind

Shockwaye, the game that has enloyed success on the 300 and is currently preparing its PlayStation Saturn Macand Windows 95 debut (under the name of Shockwave Assault). A sequel for the 3DD is also planned. The four versions of Shockwave Assault will be enhancements of the original, and will also include the extra missions previously only available on Goaratine JumpGate - an add-on disc for the original 300 version.

Essentially, Shockwave Assault is a first-person shooter, with the emphasis on arcade action rather than flight simulation. The release of the PC version marks EA Studios' first dedicated







Windows 95 project. "We have integrated many new features into this version of Shockwave Assault that take full advantage of the enhancements in Win 95 software," explains Philippe Tarbourieth, the project director.

"Many of the 3D effects in Shockware Assault would not have been

possible under MS-DOS or Windows 3.1.," he continues, "In addition, Win 95 technology allows the PC to play streaming video for the first time." An important point, as Shockwave Assault features plenty of video footage, serving as both out scenes and "live" updates of your performance and enemy status. It also takes full advantage of Win 95's "AutoPlay" feature. "Customers now have ease of use and fast gameplay comparable to dedicated videogame



etal F-177 ship o



Other features of the PlayStation and Saturn versions enabled by 32-bit. technology is the stereo music featuring Dolby Surround Sound, and photorealistic terrains. The team is hopeful that the new versions will enjoy even greater success than the 3D0 forebearer.

"We have integrated new features into the PlayStation version of Shockwave Assault taking into account customer feedback and technical advantages of the new system," explains Tarbouriech, "For example, the cockpit. has been totally redesigned for better viewing by the player, there are numerous checkpoints throughout each mission,

and the user interface has been redesigned to make it simpler to play." This is one game series that will run and run.

Shockwave Assault features a large amount of video footage. serving as both cut scenes and

"live" updates of your performance and enemy movements











## The Strike Series

Format: PlayStation, Saturn & Win 95

Publisher: EA Studios Developer: EA Studios Release Date: Summer '96 Origin: US

Take to the skies in your own personal attack chopper as another 16-bit classic makes its 32-bit debut



waanting Team person poon messey (believe waars and ser (Serier Art Director), Dee Hewitt (Softwere Engle wan (Software Engineer) and Jay Friedman (Art Direc

leste success. The team is dedicated to having fue is the pro g the product. Their motto in "If we can't have fun while we're ng it, thee how can we expect our customers to have fue when nicoted it?" That squade felt to NEXT descrition



he Strike series of games has been Super NES, Game Gear, and Game Boy. The 32bit versions planned for PlayStation, Saturn, and PC CD-ROM promise more of "that proven Strike recipe," as Game Director John Manley describes, but a radical upgrade In graphics, sound, and even a few additions to the gameplay will be made. First, 32-bit Strike will feature all

photo-realistic art: digitized representations of real terrain, real buildings, real weapons, and real people. Interactive music will vary according to same performance and the "mood" of different sequences, while the CD-ROM drive will be continue to pump out a steren soundtrack. As is visible in the screen shots on the opposite page, the new wirsions of Strike will feature a wider range of views than the ripld isometric 3D presentation of its 16-bit predecessors. FMV clips and cut scenes will divide the action, serving as tactical briefings mission overviews. and performance guides.

Strike will feature all photorealistic art: digitized images of real terrain. real buildings. real weapons. and real



people









As these screen shots illustrate, the power of the 12-bit systems have created a wide degree game "commers" moves game "commers" moved

Garmejory-wise, the new versions of Strike will feature enhanced weapons and a wide variety of targets. Heatseeking missiles, for example, are a feature that the Strike team has been keen to incoeporate into the game from the beginning. But only now has there been arough spare processor power to facilities their inclusion without detriment to the gameplay's Interactivity.

Of all EA studies five one spirms a promotion, the rue Sofiel is the far latest from completion, a game details are thin on the equal. If it is not one look on for size which scenario spirms will be premoted with to fall. 16-bit. Strike games have featured determined to the strike of the sofield latest full parts. And not vice versa containing the strike of the sofield sofield the games and not vice versa register latest eventually what me containing the sofield sofield sofield when the sofield when the sofield sofield sofield when the sofield when the sofield so



traditionally played a large role in Strike game

dictator3 before Desert Shield happened. We were watching CNN at three in the afternoon and all of a sudden it was like, 'Oh my god - it's happening!"'The coincidence occurred again with part three in the series, reveals Manier, "With Urban Strike, we were writing about scenarios involving car bombs in Washington, and then the World Trade Center bombing happened a week later." The morale of this story? Unclear, But perhaps, in the interest of world peace, the Strike team should base future projects on scenarios maniving the ending of world hunger. After they've finished having fun blowing things up, of course,

players against the army of an aggressive





ith elmost e yeer to go dil releans, the Strike am hos pienty of lime which to lecorporate a best possible visuals to the game



gaine, set in the window

.....

## **Psychic Detective**



s in San Francisco and Calciane, Since pothing like Payobic Detective the end does before, the 21 people involved with the project at EA dies. Do craw mambers, and 95 ectors appealing in the project faced a ue challenge. Gamers will get to play EA Studies respe



See the world through the eyes of a nsychic and solve a murder mystery in FA Studios' first interactive movie

Format:	PlayStation
	PC & 3DO
Publisher:	<b>EA Studios</b>
Developer:	<b>EA Studios</b>

Release Date: November Origin: US

he majority of EMNL based interactive movies thrust upon the namino miblio so far have been fundamentally lacking

in remarding gamenlay. But then the "multimedia" companies - not established game developers. So the garning world should perhans look to FA Sturfins' collaboration with Colossal Pictures (the creators of "Liquid TV". in association with MTV) as the interactive movie's best chance of getting it right. If EA Studios can't make the concept work, then maybe no one can with today's' technology

Shot on location throughout the San Francisco Bay area, Psychic Detective features five hours of live action footage featuring both I.A. and SF-based AFTRA actors. The majority of the footage won't be seen the first. time through the game, so there's always plenty of new material to discover and explore each time you play. Billed as an "interactive theilier"

Psychic Detective is the brainchild of







EA Studios' Jim Simmons, who worked in close collaboration with Emmy Award-winning director John Sanborn from Colossal Pictures, and screenwriter Michael Kaplan.

The game features as exploits of Eric Fox, a psychic wunderkind who for years has coasted

through life on his paranormal talents: cheating on exams, seducing guilible women, and performing smart-alecky lourge shows in second-rate hotels. The player plays from Inside Fric's mind. using his psychic powers to help the beautiful Laina Pozok unrayel the mystery behind her father's suicide. Laina encourages Eric to travel from one character's mind to another to gather clues by experiencing events from their perspective. The death and breadth of the story line enables the player try out numerous leads, each with its own







The game

features the

exploits of

Eric Fox, a

wunderkind

has coasted through life on his paranormal talents

who for years

psychic



invent new techniques, work with software engineers, and painstakingly craft an audiovisual experience frame by frame, element by element," Colossal Pictures »

equally confident that the end result will blend the elements of move and same successfully, "Every time you 'play' the movie, you discover new sequences, new materials - and an entirely different movie path," explains Director John Sanborn. He concludes that essentially "Psychic Detective becomes the movie you want it to be."

guides the story toward one of many endings, and decisions made by the player directly affect the storyline. "Designing and engineering games, especially new types of games like Psychic Detective, requires lots of experimentation and invention," says producer Jim Simmors, "Today's leading-edge animation houses, such as Colossal Pictures, our partner in Psychic, are especially surted for this type of work. They know what it takes to



U D I O S

## **Shredfest**

Format: PlayStation, Saturn, 3DO Publisher: EA Studios

Developer: EA Studios

Release Date: March '96 Origin: US

Ultra-realistic snowboarding action in the Road Rash style, complete with real gear, real pros, and real stunts





and are keen for Shreeffest to succeed



he Shredfest team's alm is to recreate the style, passion, and culture of the snowboarding scene. within a fast-paced action game. As such, the game model and

presentation of Shredfest will be similar to that of the 32-bit versions of Road Rash - with fast-paced snowboard racing, plenty of video cut-scenes, and a CD full of rock music. It's not yet been decided which bands will contribute to the project, but following the success of EA Studios' collaboration with A&M Music for the Road Rash project, it is likely that a similar deal will be cut perhaps with a different record label.



manufacturers (Burton, Morrow, Nitro, Palmer, and Sims), and pro boarders featured in the game. Players start Shredfest as a "local" (novice), their location determined by the character they select. Players remain restricted to that location until enough prize money has been won to compete in wider competition. Contests cover a wide rappe of





disciplines, with stunts taking equal prominence to simple racing It's not yet determined how complex

control of the snowboard will be. The team - made up of keen real life snowboarders - is anxious that the game be based upon real life, so gravity, speed, maximum turn rates, the shifting of body weight on the board, and so on, will all be incorporated into the physics model governing the boards' control. A balance has to be struck, however, between realism and rewarding gameplay for those of us not already skilled in the art of shredding down mountains at 60

Michael Chantry, the supervisory judge for International Snowboarding Federation, has been a consultant to the Shredfest project since the beginning. As



Gravity.

speed,

of body

maximum

turn rates.

the shifting

weight on the board, and so

the game's cut scenes (shot at Squaw Valley in California's Lake Tahoe). Chantry's expertise has been drawn upon in defining the tricks possible in the game, and then evaluating how these tricks are evaluated in the game's competitions. As in real life, points are awarded on a variable scale, depending on the boarder's aggression (speed and difficulty of trick), as well as height. complexity, and style. EA Studios is confident that Shredfest will be as close to capturing the atmosphere of real life. circuit competition as a videogame can get.





into the physics model governing the boards' control











### GO HEAD TO HEAD WITH AN ATR WARRINGR.

### FOR REAL.



HE'S JUST ONE OF HUNDREDS WHO ARE WAITING TO TAKE YOU ON -- ON GENIE® MULTIPLAYER GAMES.

If you're a box sim pilot, it's time to fight for \_\_\_\_\_ came every time. Not into sims? GEnie feareal. Time for multiplayer Air Warrior® on tures 21 other multiplayer games, including GEnie. With up to 100 aces online at a role playing games and casino games. To time-some of them real fighter jocks- sign up online, turn on your modem and you'll have the doorlight of your life, And dial 1-800-638-8369. Enter JOINGENIE at because all GEnie multiplayer games feature real opponents, you'll play a different

the prompt. When asked for the offer code.

after offers, and listor new subscribes only. Additional inno-distance phone changes have apply. Aveiable in US and Caracteronly Offer expres 12



# DEADLY SKIES

### BARF BAGS NOT INCLUDED

Merical loops, quick turns, speed bursts, all braines. Flying by the sect of your parts in a one-on-one doughth to the death can make a plack kind of quasay 1 de-ann't marter that you're armed to the teeth with gan comon, heat seeling rigisales and guided missiles. You suil have to keep the other gay in your sights using whitener moves you've get. Did you remember to save that dought bug from land!















Reserved, D1955 (Sp. Phono) lecksprint, Inc. Sept. 1 Sept. Source for a materials of SEGA SINTEDPES LTD. The Phytomios, Sept. 19, a tradework of Sc Computer Enterchange, Sept. 19, 2000 Jugo in a tra-

## **Chronomaster**



Is that a universe in your pocket or are you just happy to see me? The late Hugo and Nebula award winner Roger Zelazny's last project turns digital





designers, And when one of the designers is the late Hugo and Nebula award-winning author Roger Zelazm, you can be sure that the plot of the game is going to be entirely Intriquing, Zelazny's Chronomaste proves to be no exception

Imagine a world where the obscenely wealthy - industrial lords and pirates alike - can create their own "pocket universes," with oustorn laws of physics. and totally alternate realities. It was a concept Zelazny first explored in his sci-fi book. The Graveward Hart and it works well in this graphic adventure, his very last project.

You take the role of Rene

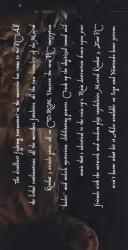
Korda, leading expert on the creation of pocket universes, who must investigate the mysterious destruction of two such universes. Both belong to pirates who gained their wealth in the planet-wide holocaust of the Pasqua Wipcout, and both have been frozen in a time-locked stasis Terran authorities have commissioned you to discover the cause

of the stasis and to free the millions of sentient beings who are imprisoned within them. Entering the universes with a supply of "bottled time" enables you to explore, but also exposes you to great. danger (you can accidentally restart an

erupting volcano, or a speeding bullet). But the real danger lies in restarting the entire universes - what are theu creators trying to hide? And therein lies the real mystery of the game. Solving it. will take you to a variety of locations. complete with madic (anything opes in a pocket universe), warping reality and, of course, plenty of puzzles to solve. With a point-and-click adventure

interface à la Kinos Quest or The Journeyman Project, and graphics. rendered on the almost obligatory SGI workstation, this could be the game that takes the tarnish off IntraCorp's (aka Capstone's) reputation.





### TURN

THE OTHER CHEEK.

AND IT WILL BE

## RIPPED FROM

YOUR FACE.

mk3 for the p

### GET READY FOR THE RIDE OF YOUR LIFE!

TS TS WHEN INSCAPE BRINGS YOU... 🖘 🥞

### THE RESIDENTS







THE EAGERLY AWAITED FOLLOW-UP TO THE AWARD-WINNING FREAK SHOW



AMAZING 3-0 ANIMATON
BY AM LIDTKE
COMMANDED
DRICKAL SOUNDTRICK
BY UNDERGROUND
LEGGING THE RESIDENTS
COMMANDED TO GRARACTERS
WITELLIBERT 3-0 GRARACTERS

THIS UNIQUE ROLE-PLAYING GAME CARNIVAL OF THE DAMNED WHERE THE CHARACTERS ARE THE RIDES

DODGE DEATH AND TAXES
WHILE SOLVING A MYSTERY OF MURDER
AND INTRIGUE IN A WORLD POPULATED BY
TEN ENFORGETTABLE CAST MEMBERS

CHOOSE TO BECOME DIFFERENT CHARACTERS AND EXPLORE THE INCREDIBLE ARRAY OF AND ODDITIES.

MIDWAY'S DARK SECRETS



FLYING NAVIGATION SPEEDS YOU
TO YOUR DESTINATION
FOR THRILLED AND AMAZED AT
THE MIDWAY ATTRACTIONS

KILL A COMMIE SHOOTING GALLERY MANYELS OF MATHEM OSGAR THE RAGING RAT TORTUNES TOP TEN



COMING FROM INSCAPE OCTOBER 31, 1995

A Windows® and Macintosh® Hybrid CD-ROM

ict 7 600-60' OCASIS to books the above enemal yea. most informationscenses. http://publicatescensisses

institutely that they are the Muley's a Drahenark of the Cryptic Corporation and inscipe.







## Virtua Fighter



The most anticipated fighting game of this season has the potential to increase Saturn sales, and to end some of the questions about the harried machine's capabilities



ost of the hard questions asked about the canabilities of







Although there are only two new characters in Virtua Flohter 2, the upgrade over the 1993 original. Each of the original characters has been

reconstructed with higher polygon counts which creates a look far more realistic than the carried stone look of Virtua Flahter. Each character has also received new special attacks and animation to encourage facts of the original title to find new

strategies and tactics in combat. Perhaps the most not locable difference comes in the form of the game's breathtaking backgrounds, which vary in theme from a simple cottage in front of a stone arena to a raft floating down a speeding river. And yet. these same backgrounds may

prove to be Sega's greatest translation problem. With player polycon screens running at AM2's goal of AO frames per second.



Developer: Sega AM2 Release Date: November Origin: Japan



the team is now strupping with the problem of getting the Saturn to handle the display of backgrounds with high

polygon counts (such as the grant stone

same time. Official word from Sega Is

all of the levels from the original,

running at full speed.

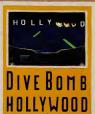
that the project will still be released with



Now that all eyes are on Sega's trump card entry for Christmas - and as an example of how far Saturn's architecture can be pushed - gamers everywhere are hoping that the company's confidence is well placed.

# TRAVEL THE WORLD. BLOW THE HELL







## MEET NEW PEOPLE. OUT OF THEM.







Take a trip where drinking the water is the least of your worries. On this tour you'll have aliens living photon lasers down your threat.

Shockwave Assault on PlayStation has over 50 minutes of full-motion video. And puts you in ploto-regulatic locations around the world where you can save the planet from alien invasion in 15 different ground-level missions. With checkpoints that allow you to continue mid-same.

Don't call your travel agent for a reservation.

### SHOCKWAVE A S S A U L T

To learn trees see on it high/f were manufactured to low







## Wing Arms

Format: Sega Satur Publisher: Sega

Developer: Sega Release Date: February '96 Never mind the ad campaigns, here's the kind of Saturn game Sega's going to need to stay one step ahead of Sony



small part to the new Sega Graphics Library (don't say operating system).

fter a first wave of over-hyped and underpowered games, Sega, is starting to pick up the slack on the Saturn, thanks in no

Greatly improved - though still far from complete - since our last look (NG 8) is Wing Arms. It is not the cachet that Virtua Fighter 2 or even Rem/x is, but Wing Arms, a flightsim/arcade game has the one sure thing going for it - extremely fun gameplay. A World War II era flight sim that focuses more on gameplay than realism. Wing Arms has an excellent, smooth flight model that makes flying easy and intuitive. Almost any maneuver, from Immelmants to Yo-yos is simple to perform, which makes the game fun for beginners while offering enough variety to hold the intreest of veteran pilots as well. But make no mistake about it -

makes Wing Arms is something a screen-shot can't show - smooth animation

What really

this is definitely an arcade game, not a flight simulator With eight different missions. featuring fierce battle over water, land, and in the air and seven different vintage style planes, there's enough here to really sink your teeth into. The planes all have both wintage (guns) and modern (unguided rockets) armament. It has three standard views (cockplt, chase, and reverse chase) and features an inspeative automatic-view change - if a plane locks onto on your tall, the

game immediately shifts to chase view (over the shoulder), which makes dog fighting far more user-friendly. More than any form of high-impact TV advertising, it's games like this one - fun, good-looking, and fast - that are going to drive consumers out in droves to cash in on what the

Saturn has to offer



can't show - fast, smooth and

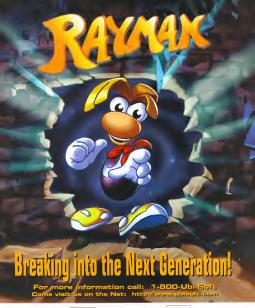
























### PEACE HAS

"An original space adventure combining strategy, action, and shooting game genres."

Human outposts in space are cheap targets for alien invaders, and the Tyron Corporation has cashed in on the defense systems they created to protect them. The fact that there has never







technician has the Tyron Corporation's undivided attention. With the full might of the corporation on his back, the technician races against time to get the word

out before the corporation gets him. Call 1-800-771-3772 for information on Game Raying.











 Immene yourself in futuratic graphics beyond belief. . Play from a defensive perspective - your best offense is your defense. · Surround yourself with high-end, digitized sounds. . Take a two-week subbatical to firish this game.





DeCon Sin a registered beginned of Millmanus Interactive (all 1975 and Encount to Con Ecot USA, bc., (25 Electronics U.S.A., bc./(20-blade and Wr. 1954. PhysRetro, for PhysRetro Rep and fails Singue are trade-nated to Story Compare Entertowers (b. Sugar ent Sugar Service or in Profession Sugar on the PhysRetronic Service or Story Compare Entertowers (b. Sugar Service Service or Interactive Service Service or Interactive Service Service or Interactive Service or Interactive Service Service



Now that you have the latest in hardware technology, you're going to need an upgrade controller that can really harness the power of this new machine.

STD makes it happen with these hot game controllers for Sega Saturn and Sony PlayStation.

EclipsePad for Sega Saturn™

This ergonomically designed control pad sets the slandard for comfort and features with eight large fire buttons, indepe, dent auto-fire, programmable synchro-fire, an LED panel, slow motion, and an extra long cord.



Eclipse Stick for Sega Saturn [58]. This powerful stick — with a sturdy metal base, eight full-size fire buttons semi and hands-free auto-fire, programmable synchro-fire, slow motion, an LED panel, and an extra long cord — brings home all the



S ProPad for Sony PlayStation™ on oured hand grips, eight fire buttons

con oured har digrips, eight hire but seem and hands-free auto-fire, four speeds of auto-fire, three speeds of slow motion. LED indicators, and an extra or grood provide total control



PS Arcade for Sony PlayStation™
Now you can truly take advantage of those
cool 3-D fighting games! The PS Arcade
packs a serious purch with eight right

cools of planning garlies: He PS Arcase packs a serious punch with eight giant fire buttons, a metal base and joystick shaft, four speeds of rapid and hands free auto-fire, three speeds of slow motion, LED indicators, and an extra long cord!

In Total Control!







### **Descent**

With more arcade action and a TSR license, Interplay may be able to draw in gamers from outside the tight RPG realm

## to Undermountain The Flame Sword of Lloth

fter pulling the lucrative Dunpeons and Dragons license out from under TSR, it was chriscus that linterplay would jump into high goar to produce as many RPGs (rele-

gear to produce as many kerus treeplying games) based on the popular game works as possible. Surprisingly though, the company is spending a great deal of time developing games that fall far outside the standard strategy adventures of most pen auto-paper of most pen auto-paper

game being developed for 3DD's M2, Descent to Undermountain has the action appeal to draw new players into the AD&D (Advanced Dungeon & Dragons) world. Set in the Forupton Realms

clear of time developing as that fall far outside the standard strategy adventure of most pen and paper corrections. Along with Realmon of Valors, a flighting game being developed fire and paper corrections. Science with Realmon of Valors, a flighting game being developed fire and paper of the standard strategy and the strategy and

exceptional level of detail that is far sece than you'd expect from a funtpaced setion title (above)

Much of your game time will be seest carefully

Much of your game tim will be epeat carefully resemble through passagemaye like this one. Keep on eye peels for surprises of any kin



pothernome zomble not pose much of a it on its own, but it's likely that he's got uriverse, Undermountain will use the same cription as the highly successful action title Descent, with several twists added to reflect the new nature of the adventure. New additions to the game are gravity (which charges in different acres of the labyrinth), new weapons (Including magical attacks for solicasters), and molec combat.

Michael McConnohe, the creative director on the project, explains how difficult the latter feature was to integrate into the program; "The combat is the most difficult thing for us now because the collision spheres used in Decent are further out from your residing and direct them."

close combat. Being able to work those down to the point where you can actually hit a biped with a hand weapon is quite a challenge."

Like Descent, Undermountain will run in 3201/200 mode with 256 colors, but there's still a chance that the

Format: PC
Publisher: Interplay
Developer: Interplay
Release Date: December
Origin: US





haman characters show a great deal races detail than the original Descent's polygon heavy fees (obcore). The etility to look up and down seles players except from helry effactions, increasing your options (to





see may be create an action of the country of the c





While secret doors are practically invisible when closed, they open in a smooth and realistic feablor



Dangarous traps and spooky hidden items are scattered through the coverages lebyrioth. The helicful crossball accompages you everywhere

developers will be able to include a 640x480 made for Windows 95 users by ship date. Unlike Descent whose enemies typically consist of 25 to 30 polyposs. (Jodenworldwill feature monsters straight out of the ADAD mythology made up of around 200 bitmapped polygon objects agiece Zombles, Skeletons, Drow, Mind Flavors Garmovies and more than a dozen more are currently planned, and more may be added by the time of minase. And even with all of the added weight, the game still clicks along at the same high frame-rate that made Descent so popular.

Perhaps the most intriguing aspect of *Undermountain* is the multiplayer obtain. In addition to a four-player networkable modi, Interplay plans to have the game up on a major network service by the end of the year (possibly Genie). In the service mode, a party could consist of four player hacked up from across the country, judyout the zervice mode, a party could consist of four players hacked up from across the country, judyout the zerve simultaneously.

With six different race, four character classes, more than 10 types of weaponry, we're fly auchie that include triepporatory, we're fly auchie that include triepporatory, min-mapsi, and tow grawly traps, and a 3D automap. Understmouthant has all of the flaminsty fare to keep RPG fans engrozed for hours. But a nice as that is, the mail story kere is that this game has a chance to transcord the eliteral existing symmetries. The support of the state of the st

the joys of the adventure title.

More than just a churred out sequel, this title bears a good chance of being even more outstanding than the nunaway success that searened it.

The real story here is that this game has a chance to transcend the elitism usually surrounding PPGe







the most impressive PlayStation game yet ext Generation

carnage-fille

ver seen"

ock ear racing on steroids' Gaming Monthly







## and looking at you



you begging for mercy? Then brace yourself, as Diamond takes gaming to the edge with a new 30 multimedia accelerator designed for Windows' 95. The Diamond Edge 3D makes game play fully immersive and totally interactive. With Designed for Windows' 95.

- . Real-time 3D graphics with quadratic curved surfaces
- . Rendering performance up to 12 million texels/second
- . Fast 20 graphics and Windows acceleration . Digital commont and 2 Secs Sature correctible same and ports
- . Full-motion dialital video, with video texturna . Hardware wavetable audio, 50 voices
- . Us to 2MB DRAM, up to 4MB VRAM . Resolutions up to 1600 x 1200
- . Supports up to 1 billion colors
- · Vertical refresh rates up to 120Hz

full-motion digital video, and an advanced digital gameport, that will leave you running for cover. Plus, two Sega Saturn controller ports for multiplayer action.

comes bundled with killer games and software including Virtua Fighter



Remix, Interelay's Descent ": Destination Saturn, and NASCARs Racing, And it allows you to play your existing DOS games without sacrificing speed or quality. The Diamond Edge 3D gives you perspective corrected texturemanned 3D images with the highest frame rates around. Plus, you get a multitude of special effects for a gaming experience so real you'll feel the sting. And with true Plug-and-Play, a 5-year warranty, 24-hour fax-on-demand, and online support services, there will be a few less things to fear. So, if you think you're ready

for the ultimate challenge call Diamond at 1-800-4-MULTIMEDIA today, We'll take you as far as you're willing to go.

24-Hour Fax-On-Demand: 1-800-380-0030 Internet: http://www.diamondmm.com 1995 Diamond Myltimetin Systems, Inc., 2880 Junction Avenue, San Jose, CA 55134-1922, Sega is a registered trademark and Virtua Fighter Remix is a trademark of Sega. 1985. NASCAR Resing is difficulty secreed by NASCARs. All trademarks and registered instremarks are the property of their respective holders. Diamond reserves the right to change specifications without solving







real-time, jaw-

dropping 3D and

2D photo-malistic

praphics a

thundering

wavetable audio

engine, vácious











ece of



Virtua Fighter Remix





Interplay's Descent": Destination Saturn



PUSH THE EDGE



A passion for performance.

## **Indy** 500



The all-American race formula gets the Model 2 treatment from Sega, but can it match the awesome Sega Rally?

Format: Arcade Manufacturer: Sega Developer: Sega AM1 Release Date: Now (Japan)



Indy 500. However, reaction to the game in Japan has been relatively muted so far with Namco's impressive Rave Racer (NG 10) attracting a lot more players.

ega's follow-up to its huse - and husely successful — Seoa Rally Championship

coin-op is another sitdown driving game boasting crowd-pulling texture-magged graphics. Indy 500 is based on the US

sport of IndyCar racing, although Sega's AM1 design team has wisely decided to supplement the traditional oval circuits. with some less realistic but infinitely more exciting courses.

The roller-coaster-like Highland Raceway is the most improbable track - its vertiginous slopes are about as far from the banked ovals of IndvCar as it's possible to get - but it should give Indy 500 the spectagular impact any major arcade game needs. Among the other



narrow lanes edged on both sides by walls. This limits the number of passing opportunities and makes it the most technically challenging of all the tracks Indy 500 is the latest Sega corn-op to make use of the proven Model 2

ourses is Bayside Street a testing city circuit with

board - Daytona USA, Virtua Fighter 2, and Sega Rally were all based on the same technology, which bodes well for



Amid an atmosphere of suspense and intrigue, you'll launch your voyage in the icy cold wastelands of the Antarctic aboard a Royal Navy submarine, where World War II looms ahead and your every move could change the course of history.

To place an order or for more information call: 800-443-3386.

This epic adventure is now available on PC CD-ROM.

© 1995 Milotion, Inc. / Infogrames Multimecia: Infotion, Inc., 626 Sente Morico Blvd., Box 417, Sente Morico, CA 90401



Can you connect the dot?

If so, you're probably smart enough to figure out that paying \$149 for a 64-bit Jaguar makes more sense than paying over \$300 for a 32-bit system.



The best graphics in the known universe. Twice the bits for half the price. And over 40 brain-scorching games to choose from. If you still don't get why the

















How do they do that?



## Virtua Cop 2



The gun game hasn't changed a great deal since Operation Wolf, Sega's Virtua Cop 2 retains the basic gameplay but

adds a few visual embellishments







un games tend to have a long lifespan in the





arcades, with sequels often keeping a series going for years -Operation Wolf, Lethal

Enforcers, and Mad Doo McGree all snawned grander, more heavily armored offspring. With Virtua Cop 2, a two-gun coin-op with stylish polygon graphics in the mold of its other Virtua titles. Sega is adhering to the same formula. Virtua Cop was nothing more than a

distillation of previous our games into the attractive Virtua-house style, and Virtue Cop 2 features the same mappie approach to game design. On certain levels, for example, there are barrels which, if shot, explode and eliminate all the enemies on-screen - a clearly Doom-inspired touch

Also new are the driving sequences, where you look through the windscreen of a moving vehicle as enemies fire out of car windows and from the backs of trucks - a feature which appeared in Operation Thunderbolt and Lethal Enforcers. The targeting system remains



the same as the original's, as do the three difficulty settings Already close to completion, Virtua Cop 2 should sustain Sega's unmatched coin-op reputation, even if it will have trouble stealing the limelight from Sega Rally Championship.

### IT'S HARD TO HEAR T OVER THE ROAR OF



Experience the new sociation of potentianos driving in \$ at the world! top sports can Each with the precise physics models based on performance alone from the experts as Road & Track." The simulation is powered by an advanced 3D engine of our own (both very first frame rates) for applicable-enlarg modern play.

It's all decord in a pos-dropping box (but sooner map and polygon count) that risals the cert themselves

### HE VOICE OF REASON A 450 H.P. ENGINE.









The nezara replay option (with multiple comora angles) lets yo reline your beat moves and must monumental crashes.

Add 6 tracks (like coast, moverane, desed crosso) and suddenly you're in car beases. You know how at is. Or maybe you don't.





IT WILL TAKE BRAINS.
IT WILL TAKE BRAINS.
IT WILL TAKE MUSCLE.
IT WILL TAKE WHATEVER
IT CAN FROM YOUR
ROLLY AND FEED
UPON IT.



# **BattleSport**

Format: 3D0 Publisher: Studio 3D0 Developer: Cyclone

Release Date: December Origin: US

Touting a simple concept, simple controls, and competitive play, BattleSport may be 3DO's next "killer app"

f all the multiplayer games released during the past few years. only a handful (Super Romberman 2. Herzon Zwei, and the tag mode in Destruction Derby) have managed to combine quick and easy controls with

Although the nontraditional gamenlay and still end textureup as an entertaining game. Studio 3DO may have such a game mapped in BattleSport, Offering players a simple polygon look game premise, an intuitive interface that is pleasing, BattleSport's strength is its

takes only minutes to learn, and plenty of different power-ups to vary each run of the came, this title has all of the elements necessary for serious fun. The basic idea behind BattleSport is to take your battle-tank, find the ball,

and shoot it into a goal. The interesting part is that there's another tank mamine amound the areas trying to accomplish the same thing, intent on destroying your tank in the



gameplay, not

its graphics

bargain. At the beginning of each level, players can purchase one of more than 20 different pieces of weaponry and power-ups including Super Missiles. Ball Attractors, Homing Mines, and Goal Shields, with money they've earned from winning earlier rounds. Once in the arena,

items that give the player invisibility, and the ability of flight, or even blind the player can be grabbed, along with about 15 other boruses. In addition to weaponry and power-ups, the team has also added a timer that adds a more realistic sports feel to the game, 10 different tanks to choose from, and a score of hidden Items to keep players interested in long-term play. The twoplayer mode features a split-screen interface that offers a surprisingly

effective field of view for both players. without interfering with the play speed. Evan Margolin, the director of

BattleSport, explains how the game evolved out of a relatively simple concept. "We're all big action gamers here [at Cyclone]. We wanted to create a fast-action, arena-based combat game and experimented with a 3D engine for it. When we got the basic engine up and running, the game was basically just about putting the ball into the goal, but when we started playing more, we found that people really want an opportunity to blast each other. One of the most difficult parts of design was getting a 3D engine with which we were satisfied. We didn't want to sacrifice speed, we wanted the game to be fast, we wanted the game to be hard hitting, and those were things we weren't willing to

Although the realtime, texturemapped polygon look is pleasing enough, BattleSport's strength is in its gameplay, not its graphics. So, if you've been waiting for a 300 title that's designed around ease of plax, fast action, and strong competition. keep an eye out for this one.







# PREPARE TO BE ROMANCED!





t's the Second Han Dynasty and China is on the verge of collapse. Infighting among the court families and the emergence of powerful warlords dominates the landscape. The struggle for power has brought an era known as the Three Kingdoms, complete with constant warfare among China's most coursecous and skillful bernes

 Discuss war stratery with up to 558 different officers, including 108 inspired by the player's imagination

 Defeat enemies using powerful new weapons including automatic firing crossbows, battering rams &. catanults

 Play one of 38 exciting rulers, eight of whom you can create yourself Set enemy units, ships or cities ablaze using a variety of FIRE

> · Full motion video enhances special events & commands inot available for Super NES & IBM CDI

New HELP feature gives you valuable command information without having to turn to the

One to cight player excitement



MUST RULE WITH A STRONG HAND.



Raing Valued INSURMATION.



INTO SATTLE.











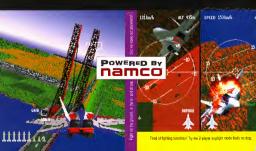




1350 Rayshore Hay Suite 54) Burtingame, CA 94010



# SOURCES WITHIN THE PENTAGON CONFLICT WILL OCCUR SOME



# PREDICT THE ULTIMATE AERIAL WHERE OVER THE MIDDLE EAST.

## WE SEE IT HAPPENING MUCH CLOSER TO HOME.

Obviously, the Defense Department isn't familiar with Air Combat." The action fighter pilot simulator for the PlayStation" that transforms you into a mercenary on a mission to recapture a



world sleded by terrorists. Build your own air without going anywhere near the Middle East.







LIKE, MAKE YOUR COMPUTER AS SMART AS US.

IF YOU'RE LIKE, "DAMMIT, MY COMPUTER'S NOT KICKING ENOUGH BUTT AGAIN!" PLAY OUR GAME, IT'S SPOSED TO BE "A CD-ROM ADVENTURE GAME" OR SOMETHING, BUT IT'S REALLY TUST ME AND BEAVIS BEING COOL AND, LIKE, IT'S NOT IN SPACE OR WHATEVER, IT'S JUST A NORMAL DAY -- YOU KNOW, LIKE DRIVING A TANK AND BUSTING OUT OF JAIL AND STUFF. THOUGH! GUESS THERE IS SPACE IF YOU COUNT BEAVIS'S BOAIN HUH HUH HUH.



· COOL HINI-GAMES AND MUSIC VIDEOS INCLUDING GWAR. SAUSAGE AND

AND HORE

VOICES BY TIKE JUDG · ALL NEW ANIMATION FROM V ANIMATION

· ORIGINAL



THEN WE'LL BE THER





THEY EAY IN THAT OZZY HO THERE'S NO PLACE LIKE HO



### **VR Baseball**



InterPlay steps up to the plate with a new sports line boasting 3D rendered polygons, texture maps, and multiple camera angles







franchise is Tike a Doesse to print money. so it's no surprise that Interplay has jumped into the act with its new VR Sports division. A not so successful sports game franchise, on the

other hand. Is a lot like having the license to Congo, so again it's no surprise that VR Sports is going all out to make sure that its products are absolutely top-flight.

VR Baseball, its first effort, is a polygon-based baseball game with





Format: Sega Saturn Publisher: VR Sports Developer: VR Sports ease Date: TBA Origin: US

several new features, including multiple camera angles and something called "Virtual Fieldvision," a totally new 360" view mode. The game will provide all the expected features: real teams. real players, and real statistics, as well as the new divisional alignment and a general manager mode that enables you to keep abreast of real-life trades. There will be also be a feature for All-Star

#### games, teams, and a home run derby. Will VR Sports crable

Interplay to play with the monsters of the sports software world. Sega Sports. and EA? Releasing its baseball title first is a smart move: despite Sega's success with its World Series line, no one yet has a Madden-like hold on the baseball market. If VR Sports can gain a beachhead in the 32-bit market with baseball, it may be able to fell the clants forward with its own dynasty.

It's no surprise that **VR Sports is** going all out to make sure that its

products are absolutely top-flight



# 3D Baseball



Realism is the gool of 3D Resobat!— even the empires moves were motion captured

The game's designers have placed realism as their central target, using Crystal's proprietary Real Motion Control

he release of both
Storik Saturn and the
PlayStation is causing
a leveling of the
playing field as smaller
comparies math will catapath
them to the top of the satist charts. This
is especially separed in the sports
catapary—a perme flectonic Arist has
comparied under the release of John
comparies and a release of John
comparies and a release of John
comparies of the release of John
comparies of John
comparies of the release of John
comparies of John
comparies of the plays of the plays of the play
comparies of the plays of the plays

As the first side in County Dynamics' Championship Sports Inc. 3D Baseball will set the stage for an entire series to come. The game's designers have placed realism as their central target, using Crystal's proprietary Real Motion Control to display extremely realistic movement in a 3D world. The technology is used to grab moves specific to an actual player (the company has an agreement with the MLBPA (Major League Baseball Players' Association) and will include stats for more than 700 major league players in the game) and arrmate this motion with their on-screen personae. In addition to all of the standard baseball options, 3D Baseball will also

baseball audiences.

Using its proprietary Real Motion Control, Crystal Dynamics hopes to capture baseball's season crown

Format: Saturn Publisher: Crystal

Dynamics
Developer: Crystal
Dynamics

Release Date: December Origin: US



A scene from a game (top). Scane will have the correct enforms feature mapped certo their bodies; 2D Essebal' i jeet the first of many titles to come

include the element of fatigue in pitchers, a full Pernant race, and even a Home Run Derby mode. "What we do is build polygonal models. break each model up into joints, and then follow the curve of each joint in motion"



Sam Player, the game designer on 3D Baseball, is excited about future possibilities of the Real Motion Control system. "A lot of times you'll see companies use motion capture, but they don't use it to its fullest advantage." said Player "The reason everything always ends up looking choppy in those games is that the machines can't store all of the frames necessary for the full animation, and they end up showing





#### "What we do is build polyponal models, break each model up

into joints, and then follow the curve of each joint in motion. Then we save these curves instead of each individual frame of animation. The tissue of a player's hody realistically follows the framework underneath." The resulting effect is seen not only in players' fluid animation, but in the way that each of the motions can blend into another one at a moment's notice, a feature giving 3D Baseball instant response-time and firm control.

The company has spent about 200 hours in the studio capturing nearly 500 motions, 150 of which will probably make it into the final release. The total frame count is expected to be about 10,000, a number that should have most graphics connoisseurs dreoling.

But Crystal Dynamics has very strong competition; Interplay, Sorw/Imagesoft, and Electronic Arts age all looking to grab the sports crown for themselves. But regardless of who ends up as the sales war winner the outlook for gamers is bright.



Correction

## Final Arch



ega's attempt to use Saturn technology in a range of average little fruit so far. Apart from a couple of derivative side-on heat fem uns and a

puzzle game, the company's new hasehall sim is the first real existence of faith in the polygon-handling abilities of the ST-V - an arcade board designed to allow easy portion of software between arrade and Saturn

Final Arch, which soon may underen a name change, follows a series. of popular sprite-based baseball arcarle marries released by Sana is a supremely good-looking title. Given the excellent level of detail, the most remarkable feature is the speed of the action: The camera rotates and anems exceptionally smoothly at a constant 30 frames per second.

The main concern of Sece's AM1 division (which was also responsible for the Model 2B-powered Indy 500) was to make Final Arch as realistic as possible. In addition to the TV-style presentation and the wide range of camera close-ups, there's an impressive range of convincing animation for the motion-captured characters, and each player has 20 different attributes which can affect his batting, pitching, and

Baseball games rarely make much of an impact, but Sega's latest Saturnpowered coin-op is shaping up to be one of the better-looking ones

Format: Arcade/Saturn Publisher: Sega Developer: Sega AM1 Release Date: TBA Origin: Janan

Each player has 20 different attributes which affect their batting. pitching, and fielding techniques





FREE PLAY

At this stage, it's unclear whether Final Arch will be ported to the Saturn. but it seems unlikely that Sega will waste what could turn out to be a playable and technically advanced version of the stort

















THE **POUNDING** IN YOUR CHEST.



# THE SWEAT ON YOUR PALMS

THE <mark>BUGGIN</mark> OF Your Eyeballs.



### ···NOW MORE \*\*\* IRTIIA THAN E



We haven't merely duplicated the arcade classic, we've completely redefined what Virtua Racing is all about. We're talkin' more vehicles. More circuits. Grand Prix mode. Split

screen mode. And a twin 32-bit RISC engine that'll ourl your toes right through your sneakers... No other version even comes close.

HOLD ONTO YOUR HAIRPIECE, THIS ONE'S ON THE SATURN
Visit your favorite retailer for more details.

VIETUZA KVACING

e Warner Interactive's VR Virtua Rasing for Saturn. OSega Enterprises, LTD 1992, 1994, 1995 All Rights Reserved "VR Virtua Racing" and Salum are loadeworks of Sega Enterprises, L

# **Shining** Wisdom



Nintendo's Zelda is the benchmark for action RPGs. Now Sega's premier designers are trying to capture its spirit for the latest game in a classic series









game, Shkning Window's estimation sed detailed gamepley should presome compensation. The SGI-randered here, Mars (below)

All the characters in the game were modeled in 3D using Softlmage, resulting in a total of 10,000 frames of animation

Format: Saturn
Publisher: Sega
Developer: Sonic Team
Release Date: Now (Japan)
Origin: Japan

he classy series of Shiring Force RPGs (role-playing games) is set to continue on the Saturn. While this new version looks primitive, we to its limited use of color, what can't

version looks primitive, due to its limited use of color, what can't be conveyed by these screen shots is the sheer amount of arimations all the sheer amount of arimations all the sheer amount of arimations all the sheer amount of arimations and the sheet of the sh

Unlike the previous games, Shining Wisdom is an action RPG in the mold of 16-bit Zeida — in fact, its designent, Sonic Team (responsible for the first Genesis Sound), have recently gane on record pealsing Wintendor's Super Famicine classic. Solving Windom's Berty to embody all the features that make games filic Zeida, Secret Of Mana, and the PC Engine's Y's senes such fun to play. As in most action PEPs collectible as in most action PEPs collectible.

Of Mana, and the PC Engine's Y's senes such fun to play. As in most action RPGs, collectible items bestow special additions on the game's hero: a Pegasus helines enablets him to fix a Power Glore empowers him to throw enemies, and a Mole Glove will show him how to dig. Bizarreis, he'll also be able to transform himmel into a

transform himself into a monkey and swing from tree to tree. Japanese text permitting, NEXT Generation will have a review of Shining Wisdom next issue.







Saddle up. 'Cause at dawn you ride the death pony. And it's gomma be pure neck-snapping, retina-tearing speed! You see, Solar Eclipse" boasts third generation 3D technology



ock from a sking collection of do-d-pearsoff death tools E ligh Explosive Plasma Guns, convenient Thermal Tracket



feature-expired worlds. Jagged asteroid holds, Sery planel surbone, layer hilled cavens, and other sures destinations.



hypor-solube Fell Mation Emphies Our secret Res-Arching proprietary segme parallel processing with Ed's 172 Pinto



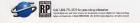
smokin' mister. But don't bother cracking a

window. It's 32-bits of SolaT

windburn out there.



you the same of Enemies 45 manages of Full Motion Wides (of the home for ball-bushing ways







Directed by Minoru KUSAKABE

Iron Angel of the Apocalypse! He's back... ...mad as hell and armed to the teeth! Join in a three-way fight to the finish with the multinational police force SCR and with the Android, who wants only one thing...

...Revenge!!!

 Multiple Gameplay Modes · Battle Maze · Outer Space

· Air Cycle Racing · Outrageous Storyline linked by amazing movie segments • A formidable army of devious Motoid enemies





# Scavenger

With Into the Shadows' realistic scenery, breathtaking lighting effects, and stunning character animation, it could easily pass as a pre-rendered graphic demo

Fyou've never heard of Scavengor, the chances are that you will do soon, whistever platform you may now own. Scavenger is a Los Anceles, CA-based software firm on the

verge of jaining that elite group of developers which have access to stateof-the-art technology but which also recognize the overriding importance of playability. The company's forthcoming range of PC, Saturn, 32X, and PlayStation games could very well set a new visual standard on their respective.

machines, but Scavenger asserts what really counts is the gameplay. Into The Shadows is unitially the most impressive game of the pack. It's a PC dungeon game that, with its realistic scenery, brouthfaking lighting effects. Los Angeles developer Scavenger may not be a household name just yet, but it's working on it. **NEXT Generation** meets a company with genuine pride in its work

#### Into The Shadows

Interesting choice of genre considering all the effort that has gone into the senery. However, there is a significant exploration element involved — the player has to collect objects and discover secrets as he or she moves around the castle. To create the characters' movements, the film enlisted the holp of a Polhemus motion-tracking system, which has had considerable







Into The Shadowa (above), Vertigo (below), and Amok



textured polygone (trp). An incondensoral stay provides a dramatic backfrog (above). Resistance lighting casts shedows through this portcustic (left)

benefits for naturalistic movement and seeing hordes of belligerent skeletons, shouls, and other foul creatures marching toward you in SVGA is a jaw-dropping experience. Scovenger is determined that none

of its games will never appear on other platforms. Managing Director Daviel Small also insists that the company will mover license it senjins: "Malf the world is going toward using other people's engines, and only a few propile are creating engines and developing technologies. We've been working on most of our technologies for two to there plass now. Everybody here wants to make an original. We're not into the parting idea."

Although Into The Shadows will only appear on the PC, both Saturn and 32X owners will have their own innovative and visually outstanding titles, Vertigo and Amok. Vertigo, a pure 3D racing game running in 32,000 colors at 30 fps. is one of a pair of games scheduled to appear on the Saturn this year. Scavenger believes that what distinguishes Vertigo is its 3D collision system, combined with fast and varied camepley. Although collision is a basic gaming element in all 3D action games, Scavenger believes it is ahead of the competition in this area, having taken account of every possible situation to create a truly immersive parreworld.

The other Saturn title is Amok A two-player action racing game slightly



resembling 3DO's Total Eclipse, this title offers a blend of slick graphics and interse split-screen racing certain to of seamles. A

captivate Saturn audiences when It's captivate Saturn audiences when It's released later this year. It also beasts landscape also later this year. It also beasts landscape also later in germes like Magic Carpet.

"For most companies the landscape is static," doservers Small. "Some firms

"For most companies the tensescape is satist," desome Simils Some Simils is satist, "desome Simils Some Simils replace one bitimap with another, but that's just too easy. Our BSpace algorithm enables us to permanently after the gaming environment to create a more involving game."

If's refreshing is this era of hard-

It's refreshing in this was of hardmost commercialism to see a company that genuinely cares about its products. Duniel Small signs off: "There are people in this office for 24 hours a day, seven days a week. It's a lifestyle. This sev't a job. It's in people. It's their life.". This is the level of dedication which makes Scavenger definitely a company worth watching.



ith their 32,000 solors, you'll eftee find ourself admiring the spectacular backdrops in ordige. Beiling toward a tussel (above)

company will never license its engine

Scavenger is

determined

that none of

ever appear

on other

platforms.

Managing

**Daniel Small** 

also insists

Director

that the

its games will

16





A JOURNEY INTO THE DARKEST CORNERS OF A LOST SOUL.

created by the makers of Iron Helix .

for more information: call direct at 310.264.5579







### Finally, baseball with



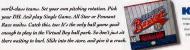


Abbbb, yes. The boys of summer. Leaning in. Taking their cuts. And blasting you out of the park with those long, foul floaters they get from stadium food. Phew-ee. Good thing there's Virtual League Baseball" - with big league pitebing, slugging and fielding in bigger-than-life 3D. You can choose from 18





world-class teams. Set your own pitching rotation. Pick your DH. And play Single Game, All Star or Pennant Race modes. Catch this, too: It's the only ball game good enough to play in the Virtual Boy ball park. So don't just sit



C1955 Strandout Association (PS)

# Danger runs CE Real-time full motion graphics 3D roller-coaster action http://www.grinteractive.com h+tP://www.20mbie.com ZOMBIE" 🥌

# hot and cold!

On Asteroid IF-1, you are their final hope. Your only weapons: ICE & FIRE. Search the complex web of icy mazes for clues...unlock the mystery that lies within...and blast this planet back to life!



Developed in Moscow by the creators of "Tetris," ICE & FIRE is a real-time journey that's more than hot. More than cool. It's the next logical step in 3D action adventure







The next generation in 3D gaming! .....

#### WineOut PlayStation Destruction Derby PlayStation Last Gladiators Saturn Dandalus Encounter 300 Virtua Fighter 32X Anache PC Batman & Robin Super NES MK III Genesis Secret of Evermore Super NES



#### We're gonna wrap you up in a cocoon of game reviews

#### PlayStation

168 170 Saturn

172 300

175 Jaguar 177 Sega 32X

179 Neo-Geo 179 PC

191

182 Macintosh

165 185 Genesis

166 Super NES

Sega CD

191 Arcade Virtual Boy

#### **PlayStation** anaut's Holiday

Publisher ArtDirk (Janan) eloper: ArtDink ment will play a samificant part in part deseration derrind and Aguagest's Holiday is a pome example of this approach. Billed as an underwater evolutation game, this Sm-Crysh title drops you into the musky ocean waters enabline you to move about freely establishing underwater stations. and building meds as you an

reconstitute. Although sea life. have you believing you really are exploring the floor of the ocean. And though the gaming aspect is a little on the subtle sale. It's priovible just swimming around.

Rating \*\*\*

#### mar: Soft Vision

Publisher: Coco Nuts (Jepen) In Cyber War, the sequel to Lawrencer Man Banda has watching a move is more fun than actually playing a game. Made up of several small events such as piloting a space ship through a virtual mace. Order War to held together tonsely by a set of animated clips

The only mai interactibity is of the Dragon's Lawstyle. This means cushing left at just the right moment or finnel on a particular doorway to cun up the right arimation clip. All in all, the extension waiting around time only serves as a good opportunity to consider the short-head possitive status of this game.

#### Dragon Ball Z Publisher: Bandel (Japan)

Developer: Rende Based on a popular Japanese acumetion sensis. Dravion Rall 2 made its debut on the 16-bit systems and was hugely successful with those fans familiar with the series. What this 20 fighter has going for it beyond name recognition, however, is not

new to stent th Boseting nothing by way of ceel innovation. Aradon Rall 7 is an instant disappointment to those looking for something new and exciting from the PlayStation. The gamepley is at very best average

and the graphics are sub-standard when compared to other fighters like Mortal Romber, About the only thing this one has going for it a the user entertion of characters Retine: \*\*

Publisher: SCE Jepan (Japan) Developer: SCE Jepan The copinal herday of the space shooter has come and from and

won't take long to remember why In many ways, this title is like the amatest hits of the space shooter deare feet and states in the Gostonstvin overhead perspective, the side-view (dating ell the way back to Defended and the behind-the-ship way

of the earlier systems, nor does it really work here. Philosoma looks nice enough and plays well, but the title breaks no new ground in any way. So, if you're feeling nostable, be sure to check out this one.

#### Ration ++ Winning Eleven Publisher: Koneral (Jepan)

Developer: Konemi When looking at a same like Winning Eleven, it's easy to see where sports fittes are doing on the next generation systems. This the great FIFA Soccer for 300 in cameniay and though the look is a title less natural, it's easy to see

characters when they turn 360° in setting up for a shot or make a perfectly angled side tackle. The Interchangeable camera views, extensive replay features, and realistic gameday are some of

so into making this ore of the Rating: \*\*\*



Window Elevan more very well

perta at NEXT ighly play the latest

\* \* \* \* \* Breaktionary

ard for an existing genro A solid and competitive





era in Bandal's new PlayStation title, Dragen Sail Z, may be affer to steme face in Jepon, but le the US they corry very little weight

#### PlayStation



CLASSIC

#### WipeOut Publisher: Psygnosi

There have been a number of next generation games with their share of flash, but not much substance. Wipedut stands tall above these titles with more flash

seri substance them may glores were ever rower meant to have. Set in the note obtained from, the hovertent trace boosts some of the basic licking landscapes seen to date, with notably exception tacks resting groundly in the histories of the basic licking. Indicates seen to date, with notably exception tacks resting groundly in the histories of each environment, it would have been easy except to stop there, but Peggnoss went the exits indicate with innovative lighting techniques and an overall sighting approach to visual design.

Although the graphics and heart-pounding soundtrack are easy enough to fall in love with, the most exciting

aspect of the title is the recing (teeff, 2 going over hills and mouthing the amonth covers is an overall lesson in excitement. The significant learning curve for play control may prove a be on the frustrating side the first few times you play through, but one the occasional leady move starts transiting into seasoned tectus, you'll know it was worth the time and afforts.

Wippout is, in every way, an architerating game who are feeling of quality through and through. If there's anything left in the racing game to look far word to now, it's a sough. A new high-water mark has been set with Pasapoos! WiceOut.

Reting: \*\*\*\*\*

Opporemis are capable of blooding you from behind, dropping masse, and using other prescreps to alor you down, so this confi is elect to do is this alim tunnel (above right Mastering the saltil or Cimbelog is sed seeking the right read choice at li increase your chances of table less and keeping II, despite t



For skilled racers, loading across are a real old. The Profile girls, for exemple, assists you in foreseeing upcoming bills



Manual 1996

# · ·

is Total Destruction mode, your goal is to stay elive so long as possible. Acquiring crash points is also a very satisfying aspect of Destruction Derby (top). Verious interchangeable views enable the driver many perspectives (right)

### **SMASHING**

#### Destruction Derby Publisher: Peygassis Daveloner: Reflections

Developer: Reflections
At this polit in the indegenre industry, when a completely original
game concept makes its way to the surface, there are three likely
explaintness. The first being that this idea is just not that good. The
second is that the slaw is empty artifam and the proper ignous had
yet to come along. The third is the new technology is existing an
idea to be implemented for the first time.

For the most part, Destruction Deby can be explained by the second two. The idea of smashing into other cars at high speeds, after all, is a furtacy shared by anyone who has ever spent time behind the wheel of a cet. Yet the chash mechanics

alt, is a fairtasy shared by anyone who has ever sport time behind the wheel of a car. Yet the crash mechanics (and graphic representations thereof) would shear have been possible on a 16-bit system. There is however, a perturn speck ensured in

Destruction Derby. It's not in anything tengible, as the generality, graphics, and sound are all handled extremel well, but there is something in the one-player socing option that never quite clicks. Two player contests are entirely different, appearably the smash-up derby held in

entirely different, sepacially the smash-up certy rels in an open arena. It's the one gigligyer mode that's looking So try before you buy for solo play. But spend just a few seconds in the open arena with a buddy, and you'll wonder how you ever fived without this form of release. Rating: \*\*\*\*\*

Saturn

#### Clockwork Knight 2 Publisher: Sega Jepan (Jepan) Developer: Sega Jepan

Following up on the success of the first Clockwork Knight, this sequel relies on the same formula as the original. And the game is almost the same, except you can scroll in and out of this beckground, provising a feeling of 3D, Though the Saturn's appeal is said to be asmed at an older authence, the cute graphics and bright pastel colors of Glockwork Ringth 2 are most likely to attract a much yourser cread

to attract a much younger crowd. There was a question, when CX was released, if the next generation game was still interested in safe-scrollary action games Perkeps the success of CX2 is meent to be the determining fector for Sega as to whether or not there is any life still left in this genue. If you like CK you are sure to files CK2.

are sure to fixe CK2. Rating: \*\*\*



The bright postel colors of Giockeork Anight 2 ere not likely to have much opposit for older gamers, but younger once will enjoy its simple gamepley

#### Dark Legends Publisher: Deto Eest Developer: Data East

There are several uses for the power of the next generation systems, including shrining up the tired general of the 16-be platforms, Dark Legence, a 2D brawler, attempts to take schartage of this arise, somehow missing the mark.

There are a time determines in

Dank Legionds that make therough use of Saturnia power, moluting a wide variety of colors, smoothly scaling backgrounds, and unusually large fighters. But for the most per DL is very much like all the 2D fighters proceeding it. Though it as possible to have fair playing this garne, it would be a metaker to buy a next generation system for a

#### Rating: \*\* Riglord Saga

Publisher Begi Jepen (Jepen)

Peveloper Hitro Gehin Gerp.

Herning entyped hings success in
Japan, Region' Sage is just the land
of gengous game (Reft) of deade
US not-playing game (RPG) facts.
Though it falls a little short in
exploratory fin and white it depends
to hiswiny to histities and predetermined atory development,
there is nittle doubt that this is the

there is little doubt that this is the model of RPGs to appear on Saturn. It's doubtful, due to its rather



The stylistic good looks of Righerd Sage are sure to have a serious impact on US RPG fame

dry format, that this game is fixely to attract many non-RPG fans even with its gorgetous greathers, but for those eager to get a look at a next generation RPG, Rigitord Sega is not at all a bed place to start.

Rattag: \*\*\*\*\*

Street Fighter: The Movie Publisher: Accisin

Publisher: Accisies Developer: Cepcom There's no doubt that games like

There's no doubt that games like Mortal Kombas and False Flay owe a debt of gratitude to the Street Fighter senso And while the gene has burned itself out in the eyes of many games, the legend of Street Fighter likes on. Hoping to dash in on its notionerly, Street Fighter The Mone is a near-per fect translation of the ordern healthern.



Physician and the Physician in the Physi

#### rating saturn

Saturn

#### **THUMBS UP**

ublisher: Kaze Co. leveloper: Keze Co.

Developer: Nate Co. If there exists the second process of the second of

platform that made them nearly obsolute.

Viseo pinbal his shways been a near-risks proposal, but with the advance palicy controls of systems like. Segs Satura, and the excellent programming represented in games like Last disabilities, is a hard to den't there's much that can't be done

accurately in this style simulator.

With four tables from which to choose, and all the bonuses, jackpots, and skill stats offered in today's most savanced.

most advanced pintell machines, Lest Glockstors is not only correncing, but it's a great deal of fue. It would have been nice to perhaps have a choice of different is choice of offered is entire to view of fire of the seasy to work with.

Ratiest: which is



isch table of Last disclusives has to swn style and attitude, but hay all play petty much the same (too). The fisid metion of the half is so resilistic that you will soon forget you're watching alertalon screen (above) ICE Cube ON SATURN:

"MAYBE YOU THINK YOU

People are always coming up to us at Sega and askin KNOW WHO I AM, "why are you so angry?" Olox, no one's over asked us that, that OHECK IS:

Sega Satura is new HOW | SEE THINGS.

OR HOW I FEEL, IT'S NOT LIKE THAT.
If shares the same architecture as \$20,000 arcade systems,

MAYBE IF | WRITE II. OR but Seen Saturn purpos the hottest arcade titles straight to

your reflexes for a fraction of the cost.



You're welcome. With a gameplay experience

pulls you in, it's no wonder the best games are YOU'LL UNDERSTAND only on Sega Saturn.

Like intense sports titles with everything but the jock itch

And this Christmas, EXACTLY

Sega Saturn will have the most electrifying library of EXCLUSIVE

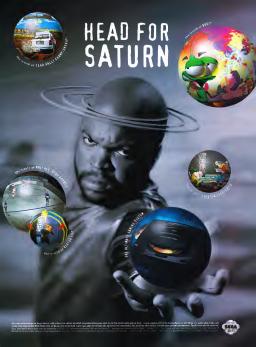
WHAT I'M LIKE... games on the planet.

| UUN | | HINK SO."

Sega Saturn is like before you've even experienced it.

And never judge a package by its repper.

SEGA SATURN





(above), Guille, M. Bleen, and Ken — oppose is Street Fighter: The Monte

Featuring all the major, and even some manor, obsracters from the humbly received movie, this title is not only well executed, but extremely thorough, including the Movie, Two-player, Tournament, and the Single player modes.
While the fact remains that Street
Fighter: The Movie is still a twodimensional fighter, the title looks

ors from Street Flatter 2 — Chun-Li and E. Hoe

Retirer: \*\*\*

#### Virtual Volleyball Publisher: Imagineer Co. (Jepan) Daveloper: Imagineer Co.

Developer Imagineer Co. In Virtual Volleybalf, the first polygonal volleybalf gime to appear on any system, it's clear that polygonal ord's necessarily make a good game. Yes, the players are in full 3D, but with terstud control once where they can move or whist first can.

good game. Hes, the players are in full 3D, but with irritud control over where they can move or whist they can do once they get there. It's not much fun controlling them. There are Inhancet problems in doing a volleyball game when considering the matter of trying to



control an entire team, but Virtual Volleybalf seems to make no effort to solve any of these problems, leaving the garner with an extremely vacant feeling. Rather #

#### 3D0

#### Panzer General Publisher: SSI Developer: SSI

Developer 1881. One of the bost PC wargames of 194 has arrived on 3DO. It may not have a whole for of flash, but what it lacks in style, it makes up in substance. If you ever wanted to command the Bittisneg, well, here's year chance. Almost avery ground and air stack craft of the WMI European theater is represented, from tarries to

tactical combers, and the strategy is miles deep Supply problems, hidden units, they're all there, fighting as either the Axes (as the title implies) or the Allies. The 3DO enables yeu to use zooming map screens, but if you find youse!



### Starring MICHAEL DORN and Patricia Charbonneau

STOP ALL E TURE! SALVAGE A PPLEO SURVIVE A AN DE BATTLE IN DEEP SPAIR, DI T ALLEN IN TALL ATION, ALIGN A WORMHOLD SE

A DAZZLING VIRTUAL WORLD! EXPLORE A FULLY FUNCTIONING 9 LEVEL 22NO CENTURY BATTLECRUISER! WALK THROUGH JUNGAYOS OF ROOMS IN SEANLESS SMOOTH STROLLING 3D.

TOTAL IMMERSION! FULL MOTION VIDEO BEAUTIFULLY INTERNATED INTO 3D ANIMATED ENVIRONMENTS, LAYERED SOUND EFFECTS AND A THRIBIND MUSICAL SCORE TAKE YOU ON AN EXHILARATING RIDE INTO THE FUTURE.

# MISSION CHITICAL The New State of the Art in Adventure Gaming!

ACTUAL SVGA GRAPHICS & ANIMATION CLIPS SHOWN

**NLEGEND™** 



d, but it might keep you are

pleased for the PC earlier this year, The Decialus Encounter is a straightforward port. As a disembodied brain encased in a mechanical probe (well, not exactly, but close enough), you, the player, get to sit around watching long FMV scenes, then hop in an odd moments to bull your two clumsy human comrades out of occasional action sequence is thrown in for good measure

If the video were any less well produced than it is, this would be a tedeous bore. As it stands, the game's mixture of digitized video, starring Tip Wayne's World Carrera (clad in formfitting jumpsut while her male counterpart wears body armor subtie), and rendered scenery are always a joy, and make it worthwhile - think of 7th Guest with a solid story and decent acting and you get the idea. Also, every once in a while, you actually get to "piot" your little probe instead of just watching video of it flying around, which helps. The puzzles range from laughably easy to mind-numbingly complex (we dare anyone to figure out scene 20's "orbit" puzzie in a timely feshion). A little more consistency of challenge would have been a nice idea The 3DO version is, perhaps predictably, more of a chore to

control than the PC version. excellent, and its full-surround stereo is great. We almost hate to admit it, but here's an FMV title that works. Retirg: \*\*\*

urning off the music and battle animation after about five minutes, don't worry, so did we. ing: \*\*\*\*



Jaguar fall: The Mayan enture

er Atas Pitfall: The Mayan Adventure has edo a few successful port-overs

the 32% in what movements a home-coming for the Pitfall series The Mayan Adventure is now available on the Jasuar and is every bit as good a game as it was on any other system

the alium of Pitfall may be the aush jungle environments, the smooth animation, or the overall playability but substance it is Pitfall maintains a feeling of quality game design from the very beginning, and is well worth nicking out, especially if you're an old-school Pitfal/ fan. Retion \*\*\*\*



like this in the original Pit/ell

When you wake up in PRISON framed by and the GROUND Ripples beneath your feet - you're not RUNK or F=%@ED up on dRUGS -you're



# Experience endless hours of action packed

entertainment with the GAMEGUN" for 3DO!

The GAMEGUN<sup>16</sup> comes equipped with a "Y" connector to allow for one or two player use. One connector plugs directly into the 3DO player and the second connector plugs into a second gun for two player excitement. GAMEGUNs are sold separately



Targeting the entire diegal dru, distribution chain is truly a innermational war. DRUG WARS will take you through it all fror smell town traffichers to big of organized cartels.



As THE LAST BOUNTY HUNTER you will face a variety of shoots scenarios and challenges as y pursue outlines on the no.



den of retilesnokes than wal through unsetted Old Tucson. The deadly differs who await you we strike without warrang, and prey o anyone who challenges then Wolcome to SHOOT OUT AT OUT TUCSON 1



and guillighters in your gursuit of M Dog and his band of outlews in M DOG McCREE\* and MAD DOG The Lost Gold\*. Then battle terrors bank robbes and creamed clease threshoring rashanel security in CRIB PAT ROL\*. Action packed!

GUNSLINGER

hateings SPACE PIRATES\* and sive the world from the eviaptain Talon in this fast-paced dventure. Bonus targets are

4801 Lincoln Road, NE Albuquerque, NM 87109 (505) 880-1718 WWW address: http://www.nmia.com/~ala



#### veloper: Libi Soft

Although this title will soon be available for just about every system that was ever created, it will be difficult to find a version that out-performs the Jaguar. With ta vast polor palette, deterled sound effects, and overall playability, there is nothing about Rayman for the Jaguar that falls below the mark of excellent, in

fact, there is little if envitored about the PlayStation or Saturn versions that will top this one. The only question left unanswered, then, is whether playars land yet another side-scrolling action game. The answer is, of course, no, but since we know we're going to get them anyway

it's at least moe to know that they meths be as good a Reyman. Rating \*\*\*\*



ure to dezzie new Jadger cycles

#### rid Series Baseball her: Sega

oper: Blee Sky Arguably the best baseball series on the market. World Senns Baseball '95 has made its way to the 32X. And everything that made WSB for the Genesis the best

32¥

#### UN-X-PECTED!

rveloper: Segn AM2 Artus Pighter, the two-year-old arcade brawler that was squeezed onto Sega's high-end Saturn and was completed full of glitches and a the 32X without the gitches and with added

feebures not in the coin-op. What makes Virtua Aighter such a great game is the excellent hand-to-hand combat, and he 32X version has kept all the moves intact. The characters don't look oute as good as the Seturn version, but still look emazingly solid. Also added as the three new camera applies (birds eye, low-angle, and high angle), a tournament feature for a group of competitors. and a full-match replay feature. All of these features are ones that home games need to

have, and ones that certainly should've been included with the Saturn version Should you trade your Seturn in for a 32X? In a word, not Virtue Flatter Rentz and Virtue Fighter 2 have no chance of fitting on Sega's





little add-on, However, If you already own a 32X Virtua Fighter is the best fighting game available - and one you'll need Rating: \*\*\*\*

This title features all 28 stadiums, up to date rosters, a full season, playoffs, the world sense, trading, drafting, all-time greats. based on players' performances from the season you play. There's

also slight emprovements in graphics, sound, and even play White the improvements are: incredible, they do make the 32% version the best basebell game anywhere. The play is deep enough for the biggest stat freek, and fact enough for the arcade from World Series '95 for the 32% en't much better than its 16 bit counterport, but it's easily the

bost baseball game available. This one won't disappoint.



All 28 reel world stadiens from the major leagues are captered part World Series Researt, You'll enter you're playing in Former Park



# cybergames titing edg

call to order: Tel 415,753

SONY PLAYSTATION

Wizardry 7 King of Bowling Pro Wrestling V. Tennis SF Interactive Double Header 3x3 Eyes Boxer's Road Zeitgeist Zero Divide In the Hunt Ravman Dragon Ball Z Gundam Arc the Lad Philosoma Kina's Field 2 Ace Combat Tekken Tohshinden Ridge Racer

Raiden Proiect

SE2 The Movie

Jumping Flash

J League Winning

Call for Convertor

Darkstalkers

Eleven

Powerful Baseball 95

Virtua Cop w/Gun Layer Section Golden Axe The Duel Wing Arms Dark Legends D's Diner TwinRee World Advance SF2 Interactive SteamGear Mash Magical Ray Earth Shining Wisdom Riglord Saga TV Animation Slam Dunk Pretty Fighter X Shin Shinobi Den VF Remix SF2 The Movie **Greatest Nine Baseball Battle Monsters** Race Driven Virtual Volleyball Clockwork Night 2 Parodius Deluxe Gran Chaser

Blue Seed

Convertor

King of Fighters 95 World Heroes Perfect Pulstar Sonic Wings 3 Viewpoint NAM 75

> **Rattle Heat** Deep Blue Fleet Team Innocent Return to Zork Graduation

Blade Force 8 Killing Time Daedalus Encounter Creature Shock Wing Commander 3 Doom Space Hulk

> Defender 2000 CD Missile Command 2000 CD Highlander CD Battlemorph CD Max Force CD Primal Rage CD

american psx, saturn, neo geo cd [11 Br HbnM] call for anything not listed

call us for your gaming needs

VISA, MASTERCARD, MONEY ORDERS ARE WELCOMED

1032 Irving St. Box 906,SF, 94122-220

Hours:

Rayman

#### The King Of Fighters '95 Publisher: Neo-Geo Developer: SNK

In an executed pairing effort to very the encloses support of 20 fighters charmed out for the New Goo, SWA has added the Sector of team models to 17th King Of The Fighters 95. The data Selvinian (one lighter after another, not these at one time) added an interesting filter to the game, but the final recuts it self a condense fighting game with nothing much near to offer the season of fighter after a season of fighter and the season of fight to the season of fight the conditions of the season of the season of the the season of th

#### probably like this one. Rating: \*\*

#### Cesino Deluxe Publisher: Impressio Softwere

Developer: Impressions
Softwere
You might think that doing
competer amulations of gernbling
games is easy, but the pointhors of
introdibly bad ones on the market
shows the fallacy in that thought.
Casano Delates as an ecception, it
speries us the FMV and "virtual
casario" walkthroughs and
opportunities on the pages. Sixts.

Pai Gow, Caribbean, video Poker, Craps, Roulette, and Blacigabid are all represented here. On the downside, the strategy guides cover only the basics and unless you're testing your "system," playing casing games lend that the on the IP. Still of

isn't that fun on the PC. Still, if you've into these games, this is one of the best around.
Rating: \*\*\*



Graphically, Casiso Daixe is one of the best casino games around

C.E.O. Publisher: I-Motion Developer: Artdink

Much the way that, deep down, Masie' Sm?ower was nothing more than an elevator simulator, this game is really a managementtraining game, loaded down with



in i-Motion's C.E.O. you get the chemon to run hig businesses, but the actual play mechanics one more like Stracity or A-Train

lots of other feetures, like stocks, subsidiaries, and various Simility elements, that's trying to convince you that you are actually running a mega-corporation.
When was the last time you.

you that you are actually running a mega-corporation.

When was the last time you saw a real CEO (or anyone for that matter) try to got the buses and trains to run efficiently? This sert a bad game, but it just desert give a good feeling of ochesion.

Ratter. + \*\*.

D-Day: America Invedes Publisher: Avelon Hill Developer: Atomic Games

This distant descendent of Utah Boseh does an exceptional job of simulating the bettle of D-Day and the difficult yard-by-yard fighting that followed, as the Alies fought for the crucial territorial advantages that would eventually olinoh victory in the European theater of World War II.

As the decision resiser for just about everything, you can obrough variables of the bettle, including even crousal weather to conditions, which adds to store conditions, which adds to your options. Attention Cames manages to take each of the teclium out of this ble-based wargame, enabling you to controllettee or strategy as you try to dual-cate history, or if you're sirving so the Massic, chinage It.

Rating ++++

interest of

by time-saving devices Atomic has iscorporated into the game Mirage

Mirage
Publisher: Attentis Interactive
Developer: The Dears Designers
Sou know, with great graphics, you
really don't need good gameplay,
logical puzzles, or a clear interface.
On no, wait, that's worspit And

that 's what's wrong this disc.
Basically, this is like Myet set in the old west, only with even less cohesion and lego than Myst. Like sees that 'lil randomly kill you?
Like spending impacts searching for hot-spots with a mouse? No?
Well then, stay away from this.
Rating: 'A

If looks were everything, Mirage would be the only thing. Too had that's not true, so either count

NFL Pro League Footbell
Publisher: Micro Sports
Developer: Micro Sports
PC sports titles usually feature
excellent statistical models and
totally sample graphics. New Micro
Sports is trying to broaden its

WHOT GOOD
IS A
SONY
PLAYSTATION
IF IT ISN'T

O1995 Germin Interactive Limited. \*\*\* Interplay Productors. All Pughts Reserved. Sorpits as register Indexactive Limited. \*\*\* Interplay Projection Project

EV CAMERS FOR CAME





SMOKE AWAITS!



RIEN SHI FRIENOSHIP











PREPARE FOR THE ONLY KOMBAT ON SATURN™!

#### MORTAL KOMBAT"

The high-voltage action of Mortal Kombat"ll strikes Saturn": "Finish him" with the supercharged graphics, character animations, CO-quality music and electrifying sound f/x of this arcade blockbuster. Ultra-powerful special moves, Friendships, Bahalities, hidden surprises, crushing combos, and out-of-this-world finishing moves are yours to kommand. Let the Kombat kontinue on Saturn™!









expensity adding better greathers to its footbell game. It shoulder the state of greathers to the should game. It is should graphics, it now he has homely riginally greathers, with chappy riginally prenomenal though, able to replay should seasons with surprisingly accounted resistists. Micros Sports entire resistatis, there of sports enter the sold staty aimpale or partners up with semipone who has Referred at the sportners.

#### Savage Warriors

Developer: Merid Concept
Two-dimensional fighters as still
big mass in the PC world, and
Savige Warriers is a good example
of the ginns. The characters move
flastly, the bestignounds both great,
the control is good, and there are
planty of hidden moves. The editing
to hairy for the bestignound nems is
perfocusely shows the.
Sound is seminability.

Sound is somewhat underground, though, and it was frustrating that there was no tournament mode, or way to select what to fight is one-player mode. Still, if you've tooking for 20 fighting on the PC, Savayer Warrious is very compatent effort.



You can't ask for much more on a PC than Sevage Wanters' smooth minution and trood artises

#### Tarminal Velocity Publisher: Apogee Developer: 3D Reeline It seems every time you think

there would be no possible way for someone to do another Decry/Descart clone, Apaged national control of the connational control of the conacts some flight-sim elements. And, happily, you're not always stuck is burnels (there are various

among other locales).

But overall, the genre, as currently exploited, is beginning to wear thin, and another "strethe-earth" shoot-om-up isn't going to alter that aging process.

Rating: \*\*



Norminal Valuably is about se drawed up an Scoon can be

#### Tyrian Publisher: Epic Megagamos

Developer: Epic Megagerice
There haven't been many vertically
scrolling shooters out for the PC,
and while this title would likely die
a quick death on the console
market, it has got a much better

chance on the PC.

You know the drill — buzz through 50 levels of multiserolling, power-up seeking, everything-or-the-screen shooting, builet exuding action. Actually, you have to buy the power-ups with cash you get in



The action in Tyrice is just an interest in any of the countiess abouters or any of the councies — but it's got a better chance to second on the PC

#### STRIKING!

#### Apacha

Publisher Interective Magic Developer: Digital Integration

The second secon

enables you to get up and kill quickly.

The three mission sessarios (Yenne, Korea, and Cyprus) are proglessively more difficult and, although the shaded polygons look simple to texturemap joid green, the graphics work well. The network and modern play is supero, enabling you to have a

The network and modern contrade to My as a wingman, weepons operator on your Apache, or as an enemy 'coptor. Overall, the combination of externe certains in the flight model with support to the Apache very near the top of the simulation heep. Raties: \*\*\*\*\*\*\*







The actual graphics of the game ere not over complicated, but the gamepley and action rev intense (top and above). Learning to fly definitely takes some practice and occomplished, but one

escentration, but er curve got the hengt, you'll fied that the light model and sechanics are cettre earlatic (left) each level, which is cool, as is the any time. There's also a story in the same. Grab datacubes in each level to discover for once itset why you're kritisal everythred you see. Roting \*\*\*\*

#### Macintosh

Frankenstein: Throu Daveloper: Amazing Media



one that came in, or uh, handy

precious handful of FMV-intensive games that's almost entirely devoid of cheese Even Tim Curry's smarmy portrayal of the med. exementac scientist De Frankenstein seems to work here, and players could call their constant desire to beat the crap out of the good doctor a gameplay element. We can youch that it

Thrust into the role of a man hanged for murder and then respireded in a manac's lab, the of year court explore the brooders Castle Frankenstein in search of consequences of his own busine

resurrection. The game is a photocealistic beauty, with a transparent interface and some of the most segment widen interiretion around today. The horror alament is nicely readstart here as well with surprises ranging from the "God-Awful Epiphary" to the greena-style shock to the base level gross out, and the puzzles manage to award insulting the player's intelligence. This is a class act, sity of "sturning" only by the marnered nature of its subject Media may be posed to kick some

major interactive butt.

Ration +++

Seda CD

#### SPUN OUT

#### tman and Robin Seher, Sega

Daveloper: Sede Don't be faciled here. While the General version of this bille might have been a lack laster sade-scrollant action come, seet assured that the Seco Conversion is quite different — it's a lack user dwing/shorting game, instead.

As dame despites on, this is, short as basin as they come. But you doke for a level title first level is mostly straight and flat through so

don't worry), then you get to five headlight-mounted guns at a few cars. then you get to drive some more, chasing down the mobile forces of Poison by. Next, you get to drive some more and chase down the Risider, and

after that, well, you get the pecture. From a technical standpoint, the acrolling is extremely smooth, and there's a surprising amount of stuff inling the road - a trick neetly avoided by FA's Start Sant for Seza CD. There's also electly of cool animated cutscenes guiled from the series. However, it's mostly a journey into sheer dum, boning yet frustrating at the same time. Retirac \*\*



e the way this looks, then you're in luch since every level in Setmon o No looks a let like it. It helps to be totally fixeded on driving the Batrachile, too



es from the estimated entire in reen the somewhat medioare driv

# =canyon shredding





It's 25 levels of car-to-car combat monstlye-stomoves and air-grabbing jamp jet:



Get a load of Off-world Interceptor Extreme™

the chaotic death-canade featuring wicked 4x4s and a blood-thirsty arsenal. Red-line across the galaxy's most intense. 32-hit texture-marged terrain. switching on the fly between COCKT it.

and chase view. Careful, though, Grabbing massive air could

crush a kidney. Or two.





Aveilable on the Secs Seturn" and PlayStation" core console









LOCUS IS THE ULTIMATE MULTI-PLAYER VR GAME! NETWORK UP TO 9 PLAYERS! LOCAN IN OBONT APECCE. IT'A For MS-Dod, Windows 95, and MacOS\*, http://www.com/ps.com/ http://www.com/ps.com/







Ah, nostalgia. Here at last, owners of the finest personal computer platform in the world, the Macintosh, can gleefully waste capabifflies on all the chunky, buzzny, blocky, repetitive ugly-ass games they used to play their Atan 2000s, back when 64 K was a wet slicate dream. River Raid, Spider Fighter, Chopper Command, Sesquest, Freeway, Kaboom!, and even the original

PirtsiV - they're all been, some in eight or more vibrant colors! games are simple, they're no-folks about five minutes. After that point, nostalzia had better keep

hase Anassic turds won't. Rating: \*



#### Genesis

#### Foreman For Real Publisher: Acquisim

Developer: Probe Foremen For Rest is the second

bosing effort for the Generals to sport the rotund, aging, but never The first George Foremen's KO boxing was a truly enjoyable game, but this second effort is a different story. dames. Acclaim has managed to destroy the gamepley, ruin the graphios, and completely suck out

The option of playing in a tournament, season, or exhibition game would be great if the boxing wasn't so incredibly dreadful. What you do most in Foreman For Real that your opponent will eventually fall This is fun isn't it? here seems to be no real effort out into any single aspect of this title, and the end result is argustly one of the poorer boxing

Sega Genesis

#### **NISHED?**

#### laher: Williams Sally/Midway

With the emerging genre of 3D fighters bullying their way to the forefront, the third installment of the 2D, blood-spilling arcade classic Mortal Kombat was received with much skepticism. But now it heads to the 16-bit platform where 3D is not an action, and it should insume its place on the top of the console fighting games.

Mortal Kombat III features familiar characters like Lui-Keng, Sonya, and Sub-Zero, along with a gaggle of new characters like Sheeve and Night Wolf who add very little to the game. The fighting is still decent, but with the addition of

mbo system, there is less and less strategy. However everyone knows that MK's charm hes in its variety of



finishing moves, in frendships, and behalities are joined by animalities (an often nationed but never found code in the first two games of the sense) to make for more finishing options than fighting moves. The graphics and sound are easily on par with Genesis games

MKV, and much better than most As a 16-bit game, MKW is certain to maintain a large part of its loyal following happy with its hidden secrets and mega-gallons of blood, but as a whole, the MK senes is

BOTTH ISSUER (CWORK) THE Roting \*\*\*\*



d, and gallees of it, is what MK, MKW included, is all al c). Hight Wolf is one of the few new characters with ch



sloper: Sussoft Ruh Roh Roggyl That's right,

Scooty, Shasazy, Theirng, and the whole gang are now part of a graphic adverture videogame show is captured wonderfully, from Shazgy's walk to Scooby's dialogue to the zery chase scenes However, watching reruns of the cartoon is a much more exerting way to erroy these elements. What Scoopy suffers from is a slow interface that has no place on a

gaming console. It takes entirely too lors! to do anythins and ultimetely just makes you not want to play. While the idea is a good one - solve one or two mysteries with the hapless Shaggy and Scooty - the application of the and tiring, old format warls through the interface, the elements will reward you, but the

amount of reward isn't equivalent to the amount of pain. Rating \*\*

Rating: \*

#### Prime Time Football '96 Publisher: Sega Developer: Sega Sporte

Lest year, WY. '95 was argustely the book book soched is m available on the 16-bit systems. This year, Sega has added the floatbally-floatball star bean Sampler to the title, the usual updited rodners, and mode some minner beauties in gameplay. Ownealt, this is the same basic bille as APL '95, but with new players. All 28 teams naclude systems, All 28 teams naclude systems, accurate mating.

Overall, this is the same basic this as NT. ISI, but with near players. All 28 teams noticed upstated rosters, accurate nating, season play, and state kept for each player. The pumping of the participation of the pumping owner of the SO-bit books players makes the time yearted-based players look actrals, but as Genesia looks actrals, but as Genesia looks players players probability press p. Prime 7 time is a winner. Plus, the genesially is sightly feature than 'SG and the Al

is a much tougher.

There is nothing really wrong with Prime Yrne other than the fact that it isn't much better than last year's version.

Rether: \*\*\*\*\*



#### Coming on with new riffs obesit eide-scrollers based on films, like

For all their digitized glory, the chectors are superingly small, actually uses the BEECT button, plus the control pad, to fire the strope. And whife Bettera has a large army of weapons at his control of Bettera, and commond—Betterage, and betterage and better bentho, even something called street, as if of insider areas and items, courtesy of the Riddler, in the ord, the garm's bidgets.



If this screen looks a lat like MPL '95, it's probably because it looks just like NFL '95, Still, Prime Time '96 features faster sameolog and tracker Al

#### Super NES

Batman Forever Pablisher: Accielm

Developer Acetaim
The surmer's biggest move has been turned into — surprise! — another able acrolling, action game. Acctain has apent a lot of monty developing its inhouse video and motion-capture facilities and R

The garre looks incredible.

"But," you might ask, "how does it play?" Well, a lot, like Final Fight, except it's not good, See a digitized Batman shuffle from left to right, pusching and lacking bad guys. See Robin John Irim. Boning:

accomplishment is making. Maximum Cavrage look like a masterpiece. To be avoided. Rating: \*

Big Sky Trooper Publisher: JVC Developer: LucasArts

It's difficult to per down exactly what gerre this game falls into, but it's some kind of combesition of action, RPG (role-playing game), puzzle, and trading games. However, considering how cute sig Sky Trooper attempts to be —

However, considering how cute \$g \$3y Trooper attempts to be the hero's spaceable is shaped \$16 a big, floppy-eared dog, his (or her) battlesut looks like nothing so much as an applic cansel or much as an applic to are to earning consists of a race of conquering intergalactic stigs — Super NES

#### GREEN



the use of rendered graphics gives the game in interesting gloss, but it into serves it leading percental flat and startle eithout Squere 'e signatur selvess (above). However it serice to see at leest assert graphics the observators aren't herritry userrisaformed (right)



#### Secret of Evermore Publisher: Square Soft Developer: Square Soft

Source Suff. is practically generatives with Jaconson BPG, but here's their fast to developed in the Visiond States, and specifically for an US audition. Shored of Exemine centers, manufact, and specifically shown the specifical control of a short state. The specifical short short short short short adventure is as sprawing, as only Sequent title, and Exemine shall be been sold a rational of different fastings woulds, giving the game a given does not control of short short short short different controllerons, rather than specifically sold in different combinations, rather than specifical points.

It's possible that if this had come from engine but Savero, we wouldn't be a critical. Exement is lightherested and externely eighyetée, and as a debut title for a new team of designants. If points to a roay structure — but it does leave us mostly waiting to see what comes next.

## How would you design the perfect boxer?







#### CENTER RING \*BOXING\*

Think of the most harmone higher magnitude More medime than multi out to the undequared Heavyweight Champsion of the world. Diff was phorn! How about built? In Center Ring Boning, "create your own original bours-hight weight, seen the color of your travials. Thin merclissisty to built greatly power and stamins. Then, box the socks off every darkinger in your way. White discussing crowths, rook and offer your darkinger in your way. White discussing crowths, rooks and stort you wright put earn that told into the through life of the production of the publishing and the publishing









Hollywood Animation Standards Killer CO Sounds Exotic Cast Of Characters Fighting To Live For Gameplay To Oie For

DENA ENTERNAMENT NE.

Everything else is for mere mortals.



clining and the Physicians lags, are produced all long Compute Entertainment (EE, Bin software is competitive with Contain game consider with the IEEE EVE designation, CERCEST (IEEE/CERCEST), their layer and detected one trademarks of end. IEEE Executions of Interfacionment in all montes consider the Contain IEEE CERCEST (IEEE).



it's also increditly large and surprisingly complex. What exactly this game's intended audience is supposed to be, we can't figure out but it deserves at least a small one. Goofy, fun, and reasonably challenging - and marred only by a



re, but it works It's redled für fär Trees

needlessly complicated mazes -Ret Sky Tropper is worth a look

#### Rating: \*\*\* The Mask Publisher: THQ

leger: Rinck Pearl Now here's a surprise, a side scrolling action game based on a good film. Go figure. If the move's Correy, the game's biggest strength

is easily a well-aremated Mask also incredibly fluid and very funny. using many of the character's powers from the film, plus a few others, integrating them well into the damentay, Control is slack, and while the level mases are, at times the complited for their own good, they're certainly inventive. Half of the fun is just discovering what parts of the background The Mask can use to get around. getting sucked through vents and

some difficulty tweeleng, and dilacks any sort of save or continue feature, but overall it's a solid, edigyable surgrise. Rating +++

#### Mechwarrior 3050 Publisher: Activisio

his came out about a year and a quarter view perspective shooter, Machinerior 3050 is clearly Inspired by EA's Desert Strike series, only instead of flying a souped up Apache, you're walking around in one of Fasa coro's Bettlemechs. The same looks good, in fact, it looks much better than the orevious Gennels version. noticeably clunky animation -

your 'mech doesn't walk as much as shuffle and bounce around and it's worth pointing out that there was better control on Nonetheless, if you like your games challenging, you can't beat enemies who come at you from all sides, it sort of makes you wonder what sort of military series

decided to send in one guy, Rating: \*\*\*



v 3050 le sel can you deal with at once?



ay of the strange character's strengthe from the film of the some name, The Mesk spettights strong gerrepley sed fluid animation

er: High Socre/Tib One thing you can say about EA's getting better. You can also say that the Super NES version never

stacks up against Genesis' This time around however, EA has come very close, managing a graphics are predictably sharper with small, but noticeable extra bits of animation, like ice spraying stops short, and the addition of the Super NES control pad's extra top buttons makes controlling the

action a little easier If you can choose between the two, the General version still has smoother gameplay and seems to have better computer Al. but look. they brought the fights back in expellent alternative Rating: \*\*\*\*



od enreited Speedy Go ree is fieely here, oh God...

aremated arthritis, as he's three frames of animation per action, on top of which, he's makes you feel as though you're controlling a large walrus, rather than a mouse, in other words, this is a darn bad game. Roller: \*



to its Goessie counterpart le gamepley. This series continues to get bette

#### dy Gonzales in Las Developer Sunsoft Let's just take all the "side-

scrolling game based on a licensed " speel as already read in to the text, shall we? Stop us if you've heard this before: A stroug of cata bas kidnapped all the mice in Mexico and taken them prisoner around the country, so Speedy has to the main advantage to being "The Fastest Mouse in all Mexico" is that it entitles liff of Speedy to no off most of his level design and olay mechanics from Socie the

Hedgetog - all he's really lacking a a spin dash However, perhaps as punishment, Spendy also seems

brawler rises above the pack, thanks to its emphasis on weapon combet, inclusion of moves and countermoves, pames, and weapon breakers. It's the sort of dame Senural Shockers wishes it could be, and if you're a devotee,

you'll be studying it for years. The Super NES makes the game look great, although the choppy animation from the Genesis version still bugs us. The only other downside is the relatively small number of fighters, seven but with sameglay this deep (and muscles this ripped - even the female warriors weigh in at 200 plus pounds, with zero fat) if

almost doesn't matter. Retine: \*\*\*\*



grash — you fire a central triangle your triangle is the same outer as the oncoming shape, the shape disappears and the triangle moves to hit the next shape in the row If the triangle bits gomething that's a

triangle bounces back. Get It? Anyway, this very quickly leads to extremely complicated strategies for clearing the screen especially since all sorts of specia tems can appear for you to "grab. These name can do things like

h's not bad really, but the idea isn't that intuitive, and once you get past the learning curve it looks the orthetrue quality this kind of same needs. We thank we're starting to see diminishing returns on this whole "guzzle" thing. Politicary A.A.

#### Arcade

This conversion of this cartoon Interest the standard driving formula, adds special weapons for each character, and enables you to he Sound himself. But If you're over your "Speed" phase, then you'll nerhably nose this un You can drive as Speed in the Mach Five against old enemies like Ninia, Kabata, Snake, and even Spend's love lost brother Banes of these other guys as well The three courses are made

amount of technic you inflict upon our enemies, and vice versa, up to the uses last inch of nanuar But despite the use of Speed. Tnoksy's gasping voice, this is good kiddy saming, and no more.

#### Viper Phase 1

Puttisser: Petter. Developer: Selbu Kalhatsu dames, we can safely say a Viper is made up of beautiful multi-level backstrounds, distriged explosions, and streams of

huliets releables and however and its nine levels increase in difficulty as you acquire weapons. Rut. Ilkn all shocters, unless your hand evecoordination is really solid, the fun will ness you right by

#### SORRY! No new games

Rating: \*\*\*

were made available for review this month on the

following system Virtual Bo

Arcade

#### TAKEDOWN

Publisher: Williams Belly/Midwey

With the multitude of fighting games flooding the arcide floors and even more pouring into the homes of anxious garriers, most people will be able to scratch their fighting rich this holiday season with few problems But with the foresight that there are too many fighters in the market right now, Williams has issued WWF Wrestlemenia in the hopes to catch people failing off the glutted fighter trein WWF Westlemanic is no Mortel Kembat: it's not meent to be as

serious, nor as bloody (in fact there's no blood in Wrestlemasia), but it uses techniques that made Mortal Hombat the success it is today, And, it's really a much better, aftert very similar, game than WWF Raw Cleanly digitized characters from WWF Raw include Barn Barn Bigging Lex Luger, Brett Hert, Yokozune, and others, who react faster, and use on adequate arsenal of tricks, special moves, and special throws to keep your interest up. Bouncing off the

ropes, leagurer from the corners, and exercising the throw moves are particularly cool, especially since each character's moves satisfy that wrestling unde in unique ways. Of the eight wrestlers, Doink the Clown's Joy buzzer is charming but is too easily read: Repor Remon's Slice 'N' Dice. stash is powerful, but his Rus Stam works better, but special note should be made of Barn Barn Batelow's Neck Breaker Yokozuna's pin, Lex Luger's inverted scissor kick, which removes large amounts of energy from the opponent

Playing Hearto Heart is hest hid Cooperative has its qualities, too, Camerian Yokonana, for example, hambooks, cabbare. and fish fly out from behind his belly -- lighthearted, and simultar flerce. You'll be sure to have fun and get in some good fighting at the same time. Just don't expect it to be Mortal Kon

Rating: +++







#### **NG** Picks for

Once a month the experts at NEXT Generation team up with Electronics Boulduse to bring you a list of the every best these that gaming has to offer. These are the games every gamer must own to consider their home libraries complete. If you're looking for the latest games at reasonable prices, with great selection and customer service as an added borus, don't heistate to check out the helpful staff at your local Electronics Boulduse. Here's this month's lineup.

Nov'95

Sponsored by



#### PlayStation |

Wipeout (Peggnosia) — Wipeout's long term playability shoots it into to spot this month above less month's Platinum into to spot this month above less month's Platinum (spot post platinum and making attorn that will leave you white knowled and bleary eyed, this has everything a futuristic racer should have — including a bow of aweatome powers, For more fur, and danother TV and another PlayStation and test out the link-up mode.

#### Saturn

Virtua Fighter Remix (Soga) — Soga's stunning graphic makeover of Virtua Fighter (VF 1.57) breathse new life into the first 30 fighter and offers a transfairing tasted what we can expect from VF2. With all the combos moves and action of the original arcade game, the new texture-mapped graphics make playing this one hard to forget.

Rating: \*\*\*\*\*\*\*

#### Jaguar

Power Drive Ratlly (Time Warner Interactive) — This excellent third party Jaguar title offers a top-down view of racing. The control is excellent, you have an incredible variety of tracks and road conditions to experience, and there's even a co-pilot to help you navigate the curvy tracks. For finas for ally incrit, this one can't be best. One of the strongest Jaguar titles yet. Rathas: x+x.

#### 3D0

Siam 'N' Jam (Crystal Dynamics) — Slipping to second position this month (see our Platinum Pick for the number one 300 title), Slam 'N' Jam is the sports game that gets even nonsports fams transitatiking and slam dunkling. Fast-paced action, in-your-face graphics and plemy for festilistic baskethal statistics will keep your hands glued to the controller and your eyes glued to the screen. Ratting: \*\*\*\*\*\*\*

Take

#### \$30 off

any November NEXT Generation pick with the trade in of three Sega Genesis (excluding Sega CD), Super NES, 3DO, Saturn, or Jaguar Fames\* with this course.

#### AVAILABLE EXCLUSIVELY AT



\*Games must include boxes and instructions. Games without boxes, subtract \$2 each.
Partitipating stores only. No dealers please, Offer may be withdrawn without prior notice.
See pales associations for complete details.



#### PC

Mortal Kombat 3 (GI rinteractive) — The title that shows the PC can stand up against the next generation machines as a gaming platform. Smooth animation, excellent graphics, and every fatality, hidden move, and background of the arcade version (and a couple of new surprises) provide a rare action treat for PC gamers. The best fighting game yet made for home computers.

#### Genesis

#### Super NES

Civilization (KOEI) — An excellent remake of Microgrose's PC classic for the Super Ninetrade, Players take on the rise of an all-powerful monarch as they guide their people from cewerner to nuclear physicists and help them take over the world. KOEI has done a great job of bringing all of the gameplay and fun of the original without cutting any comers or losing any of the epic flavor of the title. One of the most addictive carts ever made. Rattags: x+x+x.

#### Platinum Pick

Wing Commander III: Heart of the Tiger (Ingin) — The 300 version of this interactive masterpiece is the best yet, especially when coupled with the 300 FlightStick from CH Products. A space combat game at its heart, what's impressive about WCIII are the awesome interactive out-sense, featuring the acting of such celebrities as John Rhys-Davies and Mark "Star Wars" Hamill. Ratins: x+x+x.



# The New F-16 Series. When failure is not an option.



have bought the farm. A three year warranty proves it. The F-16 FighterStick offers easy point-and-chick program-



robot, combat, space or flight sim software



## Advertising Inquiries

Aldo Ghiozzi

350 Old Bayshore Hwy. agine Publishing, I

# **NEXT Generation**

career opportu



#### CAREERS IN GAMES

the best career opportunities for Game the United States If you want to talk to ntes, or if you want to see what apportun-small start up companies, you should talk

If you're interested in finding out further information about any of the above positions, please contact Sean Lord (2). 1433 North Cole Place Hollywood CA 90028 Tel: 213-464-4900 Fax, 213-464-5400

#### SCULPTURED SOLIWARE

Is the world's leading independent software developer, developing for SATURN. SONY PSX, PC CD-ROM, VR, & COIN-OP. We are looking for creative and talented people for the positions of ...

3-B Artists, Animators, Games and Tools Programmers, Producers/Designers - If you have some combination of genius and experience, in any of these areas, we want to get to know you. Be sure to send appropriate samples, and/or history, when applying

Sculptured can offer an attractive compensation and benefits package and best of all, it is located in beautiful Salt Lake City, Utah, Sont resume to...

Sculptured Software, Inc., Human Resources Dept., 2144 S. Hiehland Drive. 2nd floor. Salt Lake City. Utah 84106. Fax: 801 467-2905. Ph. 801 486-2222

#### ARE YO ome entertainment. Our mega success didn't just happen by

accident. It's the result of a carefully executed game plan.

talented individuals to create the world's top selling titles. It's tough at the top. Not everyone has what it takes to take on the challenges. But if you like playing to win, we'd like to talk to you.

It's our game. It's your move.

Senior Software Engineer Lead engineering teams developing high-end entertainment software. Experience in 30 graphics, software architecture, and technical leadership required. Attn. HR-NG-SSE

Games Engineer Team member developing high-end entertain-ment software. Experience in games program-ming, graphics programming, and shipping prod-

ucts required Attn. HR-NG-GE. Networking Games Engineer

Take EA into the OnLine games environment. Experience with networking (both Lan and Wan) protocols, server tech nology, and gaming and latency issues. Attn. HR-NG-NGE.

#### Graphic Artist

Ocyclop 20 and 30 graphics for high-end entertainment software. Experience with 2D image programs, 3O modeling and animation packages, and creating content for

ELECTRONIC ARTS

3D Graphic Artist

Create original high-end interactive and cinematic 30 graphics. Extensive experience with high-end 30 packages and how to create 30 graphics for interactive games. Attn. HR-NG-30GA.

#### Technical Manager

Manage teams of engineers developing high-end entertain ment software. Experience managing engineers creating tophisticated and well architected code to a shipping dead line, Attn. HR-NG-TH

#### Art Birector

Load art teams and design efforts in the creation of high-end entertainment software. Experience nging graphic artists to shipping deadlines and iding art direction for interactive entertainment products. Attn. HR-NG-AQ

> Graphic Tools Engineer Create 30 and 2D graphics tools (on SGI, Mac, or PC) used in the develop-ment of interactive software. Familier with animation, modeling, rendering, and image processing. Attn. HR-NG-

Product Marketing Manager Be the marketing product d

Lead, develop and own product market ing strategies and their implementation Attn. HR-NG-RMH

Positions available in San Mateo, California; Vancouver. British Columbia and Austin.

As the indisputed leader in the interactive software and video entertainment industry, EA offers great pay and an innovative benefits package. To learn how to get in our game, sendifax your resume today, indicating position of interest to Electronic Arts, 1450 Fashion Island Blvd., San Mateo, CA 94404, Actn. Human Resources. FAX: (415) 513-7160. Principals only, no phone calls please. An equal opportunity employer,

#### SOUARE L.A.

SQUARE is one of the most successful games developers in the world. Our Final Fantasy series of RPG games has sold over 10 million copies world wide.

Now SQUARE is opening up a graphics research facility in Los Angeles. This new facility will help redefine the intensity and scope of the interactive gaming experience of the future

We are looking for talented, highly motivated professionals with experience in the following areas:

#### Senior 3D Animators

- 3D animation (min. 3 vrs on high end software)
- 3D Character Animation Nurbs modeling . Motion Capture . Shader writing . Particles

#### Software Engineers

- · Real-time graphics programming · Open GL · Performer · Open Inventor
- · Artificial Life · Parallel Processing

Send resumes and demo reels to: Square LA, 22647 Ventura Blvd, Woodland Hills, CA 91364 FAX: 818+224+3006

#### Educational opportunities

#### graphic design

Study at The Art Institutes International and develop your talent in the fields of graphic design and

computer animation. Learn the foundations of drawing, perspective, color and composition under

professional instruction.

Explore typography, design,

computer graphics and 2- and 3-D animation. Financial aid is avail-

ىه

able for those who qualify. Seven locations

to choose from: Atlanta, Dallas, Fort Lauderdale, Houston, Philadelphia, Pittsburgh, Seattle,

At The Art Institutes International

1 (800) 592-0700





#### SOFTWARE DESIGN ENGINEERS

#### Interactive TV Tools and Applications Design and implement

multi-player games for interactive ticknessen. Requires 3+ years windowsip Programming in C/C++ with experience in video games, multimoths applications high-end graphics development, samablor, repcessing of dishibited applications, Wn32 experience and knowledge of OLE/Component Object Model preferred.

#### Games SDK

Design and develop new high-performance graphics API and drivers for Windows 95. Requires 3+ years commercial development in C/CH+ and expenseos with little 188 assembly language. A background writing Windows devoce drivers or with graphics hardware proferred.

#### Consumer Division Work with internal groups and third parties to investigate

current technologies and ensure top level desum for Microsoft consumer products. Responsibilities may involve preparing schedules and resource requirements; managing daily operations of the development team; and working with 3D artists and speech pathologists to determine facial movements made when forming different sounds in the English language. Requires 3+ years software development in C/C++ and experience with the complete lifecycle of a product. Some positions also require experience with 3D animation. Knowledge of games, network

ing and real-time programming

nseferred

#### hem

A Bachelor's degree in Computer Science or other relevant discipline is preferred for all positions. Relocation to the Seattle area will be required.

Please mail your resume, indicating position of interest, to:

MICROSOFT CORPORATION
Attn: Recruiting, Dept. Aq4h1-1195
One Microsoft Way, STE 303
Redmond, WA 98052-8303

or creall your resume in ASCII text format to: y wait/il/microsoft.com

(Indicate Dept. Aq4h1-1195 in the subject header.)

For additional information about Microsoft

and our job opportunities, look to http://www.microsoft.com

We are an equal opportunity employer and support workforce diversity. Microsoft and Windows are registrated trademarks of Microsoft Corporation.

**Microsoft** 





#### game developer

Wizerds of the Coest, maker of the hit trading card game Magic: The Gothering<sup>10</sup>, is looking for energetic, enthusiastic people to support its game development staff. If you are experienced in abject-oriented design or development, are a good Magic player, and are looking for a different card of except than we have an onentimite for an onentimite for an



#### lt's not just fun and games...

It's an amazing career opportunity, it's creative freedom, it's a chance to learn on state-of-the-art equipment, and there's plenty of free coffee!

Join Konami Computer Entertainment (KCE), a new R&D subsidiary of Konami Co. Ltd., an industry leader in electronic entertainment for the last 25 years.

KCE's mission is to gather the most talented individuals on the planet to create the best video games for the American market. We are actively hiring:

### Programmers Designers Sound Designers

Programmers and designers must have PC or game platform experience.

KCE is located in a spacious northwest Chicago suburb. Relocation packages will be available. Plus, we offer great benefits including competitive salary, 401(k), medical/dental plans and, most importantly, a great place to work.

To find out more about the growth opportunities at KCE, please send resumé with salary history to:

Konami (America) Inc. Human Resources, Dept. NEXT 900 Deerfield Pkwy. Buffalo Grove, IL 60089 Voice mail: 708-215-5100x242 Fax: 708-215-5242

KONAMI

Konami is an Equal Opportunity Employee.

Konami@ is a registered trademark of Konami Co., Ltd.

©1995 Konami (America) Inc.

#### corresponding

Say something! And make it good. Write to Next Generation letters, Imagine Publishing, 1350 Old Bayshore Highway, Suite 210, Burlingame, 62 494010. Fax: (415) 6981.678; or e-mail: ngonine@imagineinc.com, We're sorry that we can't reply to all correspondence, but everything is read and recycled



Write where you belong. Send your thoughts to NEXT Generation

will have a log & 3DO and will must likely get the Sorp RhyStation. But the quartity of the output devices onceed the capacity of my input systems. Do you know of any type of switchboard thingy (mark) and one output with a AARC, mutch) leither in composite and/or steree RCA plag or 5-wideo lyg format? This would make my cabling relighmant po swit Tanks,

You can get an RCA-style

Dave daveth@boi.hp.com

swetchbox at any Radio Shack, or half-end electronics store. am extremely concerned with the trend that has been semblished in the early coines of 32-bit earline. It seems that the mirrute I pick up a controller, the ending credits begin to roll, I'm lucky to get re than 30 minutes out of my gaming experience. Unlike the early goings of 16-bit where games did nothing to unlike the hardware. I feel the early crop of 32-bit games are graphic and technical masterpieces. Linforminately this is where the problems arise. With the mind numbing power these new systems possess, developers are able to present us with astounding artwork and incredible 3D. Such sophistication lends itself to many late nights for the programmers; what once took six months to develop might now take a year as the artist is presented with the means to deliver Disney-quality visuals. Imagine the time consumption in making a Suber Metrold with Astol

quality art... It's a scary thought.

and the way I see in now, it will only remain a dream unless developers want to take the time brings in not only association, visuals but also substance and length. But this is the '80x and, of course, company profit takes precedence over my gaming ericymenn. Herm... Bigli-bit Costlevinia with 32-bit visuals. A pay can dream, can't he! CLESTLDZN@aod.com



Astel, a pletform game on Segn Sature, shows the strong use of colorful graphics in 32-bit games

The art in 32-bit games is indeed ascounding, but what's important to remember is that there are also new tools, like Adobe Photoshop, 30 Studio, and Oebabolizer that make doing the art for sames far easier than the days of hand-poseled sprites designed on graph paper. As for neplay with some of the early 32-bit titles you may certainly have a point - eamepler sometimes discouragingly takes a back seat to looks, but we have also seen some new gameplay elements in products like fumbing Flosh! Destruction Derby, and even to a degree in Bug! that lead us to believe that radical shifts in the gameplay paradigm - for the better --- are coming.

ou guys at NG are my favorite, but you're starting to leave Jaguar behind with the 16-bit units. I am disappointed in the lack of jaguar coverage and am mad at the nasty comments about jaguar, PEOPLE, JAGUAR DOES NOT SUCK, JUST BECAUSE IT'S MADE BY ATARI DOESN'T

We review every Jaguar title that ships and preview Jaguar titles whenever applicable. The Jaguar title was on the cover of NG 4 and we interviewed Attri's President, Sam Transel, in NG 7. We would argue that NEXT Generation's coverage of Attri is the most comprehensive in the industry.

hen you refer to a game having 60 FPS like Ocytono USA, do you lly mean 60 frames p second or do you mean 60 felds eer second? Television broadcasts are at 30 FPS (frames per second), which means they are actually running 60 fields per second. A standard television interfaces 30 possitive and 30 positive fields one after the other, hence the 60 fields per second or 30 total frames per second. One field is only \$0% of the total frame. So, are you saying that

Doysen USA (arcade) is actually ruening at 120 fields per second! I don't see why because the human eye can't desect any flicker after 12 frames per second (or 44 fields per second). It lends seems like a waste of processing power.

SeanM2@ix.netcom.com

FPS mean frames per second.
However, we should note that
often areads monitors are not
interfaced. Interfacing TV mages
is a hold-over from the carly
days of TV, when electron gain
were too slow to draw the

whole screen in one pass.

everal people are under the belief elat the Ultra 64's delayed release in the US is due to the wesk value of the dollar. I strongly disagree

with this assumed position.

I think that a far more probable reason would have to do with hardware oblays (despite Namendo's claim to be on time). First, if Nintendo's was concerned with the wake of the dollar hurting sales, it would be much more logical for NOA to set the system on time, hold funds in the US until the dollar gained screegith, then coheren it to yet.

strength, that convert it to yet. This is common practice for many multimostand companies. To simply wast ustif April and base its bet on the economy is a little more than a gamble. What if the dolar sank further! Not only would Nintendo lose morey on a weak currency but it would also incur costs due to warehousing and systems ursold, as well as lose out on the schroolser life-ocitie.

Jim deVos

There are many reasons for the delay of the Uttra 64, including hardware and software delays: sorting out the storage medium of the system (nothing is extend in stone yet); putting the finishing touches on publisher and developer nights, and, maybe even most importantly not cutting your Super-NSF holds yeals.

t seems that no matter where I look, you guys always have something bad to say about Sega and all of Sega's products, particularly its newest machine, the Saturn.

Nobody can deny that Dystone USA is the most enjoyable mong game to ever let the home market, and despite what everyone says, the polygon redrawing isn't really that bad. My fixend and I are convinced you guys are being paid off to Says LES.

by Sony US So what's the deal? Stove Williams



White Daytons USA for the Seture has excellent gamepte its draw-in speed in vary slow

White not getting "paid off" by anyone, and we have no portroller pro or anti-bases against companies. We judge each product or in individual ments — Sega has stumbed body with the 32X and Sega CD and we have rightfully taken it to task for them. The Searn has great, currently unrealized agreat, currently unrealized to the segaration of the segaration

was just reacing NG 6
(letters) in which a
reader wrote in and said
that he called USA-SEGA and the
folks there sold him that Rüfer
Instinct was coming out for
Sega systems. You called in and
claimed you were told the same.
Well, how come when I called
they told me different?

Second, let me start by saying that throughout the whole article on the Saturn in NG 8 (Now Read the Facts) you said nothing good about it and you all you did was tesh Segs. Whet's wrong, dight Segs advertise enough in your "not-o-cool" mas?

Third, Killer Instruct is made

by Midway all that Nintendo did was pay to have its stupid name on the game. So, in actuality, there could be a chance this Mortal Kambat wanna-be could come out for the Saturn, withough it's a kim chance.

And list but not least, who are you to speak for 100,000 gamers out there! And as for aryone being called a "lar," people in glass houses should not throw stones.

#### Jamie Bertucci Burbank, IL

Jamie, the day Killer instruct ships for the Saturn, we will fly to Burbank and personally build you your very own glass house.

am beginning to notice a disturbing trend in your megazine. Many megazines compare Writin Agiter and liksten or (Edithel Arms). Switcher to give a stark contrast in fighting gimes and to show the supposed advantages of the Physiciation. However, this is an unfall comparison. Print of all it is similar to comparing Depton USA to Pale Postoon — the

former is built on the precepts and success of the latter, to which it owes gratitude. Magazines should be comparing Tekken and Toshinden

ow brain gighter 2, yet I haven't control gighter 2, yet I haven't seef any gight on webbut sidentified that VF 2 is a better girns. But what, you mgist reappoid about the fact that Telsmore Telshiden will be mishable to the home systeme earlier than VF2 Vell, if you pin on waiting for the best game, VF2 is only coming out a few months after Telsmor, and if you've waited the fire months after VF was made available, then waiting a tital longer for quality shouldn't upper.

People are so arosous to jump on the Sony bandwagon that they don't stop and think what they're saying. All I ask is that you

compare comparable games and try not to commit such moticeable logical flavs. You've fought well against becoming an all-lype maguzine. Please don't cross the line you are narrowly beginning to approach.

David Goranson Pocasset, MA



tests vF 2 arrives on the Se comparisess will be made between VF1 and Tookinder

Last time we checked, comparing free personal norm 32-bit free personal norm 32-bit fighting genee to other first-personal norm 32-bit fighting genee to other first-personal norm 32-bit fighting paries for racing genes to other racing genes was not exactly a flew in logic. Just because Fele Peccon care our before Deptem doesn't mean we can't look at them and styp Depose is better than Fele Festion. If Namoro had come out with Fel Festion if Normo had come out with Fel Festion for PlayStation, we would be well pastified in significant Septial handware looked better based on the software table was out.

the software that was out. And while we're sure that fighting games better than Tekken, Towhoden, or VF2 will ship evenually on both Segs and Sony platforms, following that logical stream would lead us to conclude that we should never buy or pilay any games, because better ones will someday be out. Thanks, buy we want to pilay now

pust finished NEXT
Generation #7. The
magazine a truly for the
thinking gamer. Right now I am
in the Marine Corps Boot
Camp. My job when I graduate
will be electronic repair.
No one around hare knows
the answer to this question. Can

you help out! What are the technical differences between the Parasonic and Goldstar 3DOs! By the way, is there any treatment for extended videogens withdrawal!

Recruit Seam Graham

Paris Island, SC

The differences between the two 3DO bardware reansfacturers, Planasonic and Goldstar, remaining on the market are entirely connect:— in terms of technical specifications, they are the same. And in response to

the best treatment for videogame withdrawa? It's NEXT Generation of course

crean burn-in. What's
the story? It is common
knowledge that if you
leave any still mage on your
screen for a good length of time
your TVCKIT. Homesenge
to usually to suffer burn-in on
your TV from normal
gamesplay? Many games
amustin a constant stores screen
for notes: the ser. Will these

maintain a constant status screen for points, life, etc. Will these status bars affect the monitor? Gary Swerski Lake Parsippany, NJ

monstor, the more lakely the screen is to superience burn-in, which happens when the cathode rays in a popular table burn the ploapitor from the tasks of the babs. Norm of the 17st we have as NEXT Generation have ever experienced a problem in general you only see burn-in these days on ATMs and old arcide machines that of the seed days on ATMs and old arcide machines that daylay the same images for likerally

hundreds of hours at a stretch. Unless you have a projection FV, which can burn-in from normal game use, and you don't leave a gime on your screen for 24 hours a day weeks on end, you should have no problems from status bars and nother static impacts.

have been an avid gamepipeer since the 2600 incredion. However, I risisk it's time for the dustry to stop and take a breather. Initially it was smple to decide on a game system. I first owned a 2600, then an NES. Both easy choices considering the competition. Then came Genesis, and things began to get complicated. After the Super NES there were two equally successful competing systems for the first time in the industry. Thirms were still pretty simple. Now however, we are faced with Attari vs. 3DO vs. Sega vs. Sony vs. Nintendo vs. Apple (II), not to mention the PC. What we have is the most confusing market in an Industry in recent history. Not only that, but the turnover

rate in the industry is getting ridiculous, I mean, 3DO came out in 1993 and we are being sold the upgrade that apparently will take it beyond the PlayStation and Saturn, just two years later. I am now more than ever a firm believer in the 3DO concept of a "standard" game platform, or barring that, fewer competitors. I suppose that it all equals out eventually, but the fact that the new systems are (approximately) on equal footing performance-wise and that many third party games are now multiplatform, has me seriously questioning where the indust will en and if it will survive. Do

you guys have any opinions? Curtis Naus

West Grove, PA You bring up some good points, but it's important to note that things were never quite so simple. Back "In the old days." there wasn't just the 2600; there was the Bally Astrocade, the Fairchild Channel F, the Odyssey II, the Vextrex, the Intelligraph. and the Colecovision, to name a few. All looked like serious contenders at one point. The latter two, slong with the Atari \$200, 7800, and the Sega Master System also fought with the NES for dominance in the "second wave." And who can forget the great also-ran of the 16-bit era. NEC's TurboGrafx 16? There have always been a lot of players. we just tend to remember that the winners were the "obvious choice" when it came time to

Most industry insiders feel there are more systems available or coming than can be supported by the markor and that a shakkoot will take place over the mest year or too, learning two systems dominant in the industry, with perhaps one as a dustant which and the rest scrambing for insiders, owned to the committee of the committee

enjoyed Marcus Webb's Arcadia in NG 7. However, the analogy comparing the film to home video relationship with the arcide to home videogram relationship is filmed. Seven billion is not "missing!" from the arcide industry — it was never there. The adversarial relationship between the arcide industry and the home gime industry can't be compared to the profitable, missally beneficial relationship easiered by the film industry and the processing the profitable.

home video sales and rentals. I manage a small arcade and often see potroos spend hundreds of dollars during the course of a few months on one or two of their favorite games. The movieroer may see a good movie twice. perhaps three times, but videogame players may play a popular game two or three times a week for months. The kid who loves Mortof Kombot 3 and the Martal Kombat movie will spend simificantly more at the arcade than at the theater. And he [or she] will do so at home. The home video will cost \$29; the home videogame will debut at \$60. Consumer expense for arcade and home videogames is greater for afficionados than the

Because of the higher cost for the 'complete' "Misagame experience (to play in the arcade and as home) and the longer time embed in games versum envest. I would suspect that there are algorificantly fewer and violationary players shen and movie goers. I also suspect that there are algorificantly fewer casual games than exaul moving-poers. And if it specifically the casual market, those secole only willier to spend

expense for film and home video.

a few dollars at one time, that makes up the bulk of the market If the above is close to the mark, then the demand for the videoramer's dollar often must pit the arcade game against the home game, because both experiences are moderately costly, but the move roer can easily afford both home and theater experience. Beyond economy, however, the experience of watching a movie at never equal the true, breer than life theater experience. In contrast, the arcade video experience has been very closely duplicated by the home consoles.

The purpose and public perception of the different forms of entertainment also ereatly influence why the theater to home video market is complementary, but the arcade to home same market is competitive. A film's replay value comes from how well a story is told; you can't see the story again in the theater when you want to. because moves have a limited play run. The only way to see the story again is to rent the video or wait for it to hit TV. In general a videogame's purpose is not to tell a story. Some game designers might like you to think that the story is important to the name. but few patrons at my arcade have particularly enjoyed the story sequences in MK III or Killer Instinct. I have yet to fathorn why videogame makers insist on

games. The videogame industry

creating "plots" for an

entertainment form that is not

gameplay that is important to a

rame, and that is sadly lacking

from many arcade and home

necessarily a story, but must

always be a game. It is the

Stories in fighting games like MK, ore net key for success, but they do add depth and intrigue

markets home rames while the arcade games are still popular, so it's no wonder that home videogame sales directly affect arcade name revenues. If home videos were released while films were still in first run theaters, you would see home video sales affect box office revenues, too! Is \$7 billion missing from this industriel I think the question should be, "Will the arcade Industry and the home videos industry ever create revenue for each other, or continue to create competition for themselves?" In question positively, we can use the film to home video analogy.

The game industry ought to enlarge the score of the arcade experience, the same way the theater experience is larger than the home video experience. Marcus Webb suggests that the industry is changing the scope of the arcade experience through high-end simulations and chin updates that keep games fresh. But the videogame industry must resolve its "identity crisis." A film is a story. Consumers know what they're getting shead of ome. It is not clear what what videogame designers are attempting to make videogames become. Games need not incorporate a story in order to be successful. Often the "story" is a poor substitute for engaging gameplay. It seems the coer-opindustry has had few "pure" comes in recent years, and it is gameplay, as any die-hard gamer will tell you, that is the key to the rame's success. However, a few arrade and home games have truly innovative and fun gameplay. The videogame industry must desire rames for varied markets. Mariors, I feel, must evolve like organisms and up-to-now the arcade industry did not feel the pressure to evolve. But soon. very soon — a monumental change must occur, or the business will eat Itself out of this form of existence. Seven billion is not missing from the industry: but, if the industry is willing to be creative and take some chances. then there may be ways to make the arcade and home markets complement each other. Maybe not \$7 billion dollar's worth, but then again, maybe more

Roger Pugh Carbondale, IL

Tracks for the excellent letter. Some would argue that the evolution of the arcide expension from something larger than stand-up TVs has already started with grames like the right-player version of Doycone US/ (complete with hydrolic monoso), which imply carect be diplicated and the right player was to get its hand on the "irressing" 37 billion Harrica Webb decisioned in one of the player of

## IF YOU'VE WE WANT TO BEEN TO HEAR ABOUT IT.

Crystal Dynamics, the creators of Off-world interceptor Extreme", and NEXT Generalism magazine have a contest that will brailize you as much as the game listell. Drudge up the past, bring back a painful memory, and tell as about your ROAD TRIP FROM HELLI Mere you the unbucky consecued to the past, bring on the past, bring the past, bring the past of the past, bring the past of the pa

#### Stand Water

One winner will receive huge, ass-kickin' 4x4 Off-

- \*4-wheel drive with tandem motors
- 4-wheel drive with tandem motors
   2-channel digital proportional steering
- Remote control console with removable crystals for frequency adjustment
   Rechargeable battery

#### Second Prize

Ten winners will receive Off-world Interceptor Extreme games in their choice of format (3DO, PlayStation, Saturn)

#### lited Priz

Twenty-five winners will receive official Off-world Interceptor Extreme T-shirts!

#### Contest Rules

- To Pater: Submit your leafule story on 8 1/2" x 11" pages
- To Enter: Submit your legible story on 8 1/2" x 11" paper and send it to: Extreme Game Contest, Imagine Publishing, Inc. 1350 Old Bayshove Hwy, Sude 210, Burlingame, CA 94010. Stories should be no longer than 250 words.
- One entry per person. Entries must armie no later than 12/29/95. Be sure to include your name, eldress and phone number.
- Eligibility: The contest is open to U.S. residents 18 years of age or older, except employees and immediate family members of Crystal Dynamics and Imagine Publishing. Inc., their affiliates, subsidianes, sales
- representatives, distributions, advertising agencies, promotional agencies, printe have lived on another planet. Selection: Winners will be velocited by 1/15/96 and notified by mail or phone.

And while you're waiting to find out if your revolting story brings tears to our eyes and wins you a prize, check out the game that promises a heliacious driving experience every time you get behind the wheel.

- Off-world Interceptor Extreme gives you
  - Two Views: switch on the fly between cockpit and chase views
  - Six Alien Worlds: guaranteed crime-busting, boss-blasting, stomach-wrenching
  - excitement

    New Level Layouts: wind-out your engine
  - and grab serious air
  - Two-player Action: vertical, split-screen
  - driving at its best
     Power Unst customize your car
  - to optimize performance
  - Weapons: choose from multiple implements of destruction to build up your arsenal



MA-COS, WINOWS AS, MACINTOSK CO. WOM H-Sec. With Cold to Be street bright // Bes. district, edg. e-Reint district distri IF VICTIM DOES NOT BEGIN TO CHOKE REPEAT THIS 4-STEP SEQUENCE. DO NOT GIVE UP ωŧ ed gifth of speciel moves and powers. Definitely not recommended for the week of heart. moves, you builtle experts in the discipline of Mongolins Boxing, Wu Shu end Kung Fu. Defect them and you will be ewerdfael and fury of e classic martiel erte film. Using lightning firks, whirling kicks end an ersenel of bose-crushing secret nction to ever come out of Hong Kong. The only high-speed fighting game that immerses you in the euthentic look, nound, Practice these moven only in the new Supreme Warrior CD-ROM. Feeturing some of the most eas-kicking mertini ertn ₽ij

It yes think this poster is over remotely serious meybe yes about contact one of those daytime both shows and sign up the the spinede "incredibly gallitie people and the meter who specific off them."

# STANDARD GUIDE FOR CHOKING VICTIMS

YOUR VICTIM IS NOT CHOKING YET.
YOU MUST ACT FAST. EVERY SECOND COUNTS.







## AMASS POWER. DESTROY YOUR ENEMIES. MAKE MILLIONS DOING IT.

YES, IT'S THE 80'S ALL OVER AGAIN.



Next mount

Hardware War

Head to head: PlayStation, Saturn, 3DO, PC CD-ROM, Jaguar, M2, and Ultra 64. Which is the most powerful? Which has the best games? Which has the brightest future? Which should you buy? The definitive, hype-free report, next month.

> NEXT Concration #12 on sale November 21, 1995.

on Sale November 21, 1995.

Imart readers have already subscribed. To find out how you too can save mo
and guarantee your copy, turn to the insert between pages 32 and 33.



imagine











#### RETROMAGS

Our goal is to preserve classic video game magazines from years gone by, before they are lost forever.







Thanks goes out to everyone who makes this possible. Starting with the original writers and editors, to all the people involved in acquiring and digitizing these magazines.



People interested in helping us out, in whichever way possible. Either by donating magazines, scanning, editing or helping in the distribution, visit us as www.retromags.com





are only interested in preserving magazine which are published prior to the year 2000. We have no desire, nor intent to profit from these scans in any way.



you come across people trying to sell these releases.









Dreamca







