- 2-3 days-Taloman Plan forstory the partners. This will be used to regionat all Tokes & 12th u/Bill - Pad Ma, Check w/ Christin. neet air mulbill to decide hu to clear at Intel.

( - a write up of ogreement for Parl.

PLAINTIFF'S **EXHIBIT** 

# alisman

#### MULTIMEDIA ISSUE

- Real issue is that Microsoft and Intel are out of sync on 3D and Multimedia.
  - · We're developing Talisman; they've licensed Lockheed-Martin technology to build Auburn and a series of follow-on chips.
  - We've disclosed Talisman to them and started on a joint program; they haven't disclosed Auburn to us and are backing out of the joint
  - We're pushing DirectX; they are API neutral at best. May be selecting another API or trying to set a new hardware interface standard to get us "out of the way of their ismovation."
  - > They are very aggressive on 3D and Multimedia.
    - » Development, content crestion, 3D benchmarking, marketing and advertising

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## INTEL LICENSING ISSUES

- Unwilling to license Talisman "for use with Windows only"
  - Unlikely to move from this position.
  - Risk is that they can take the technology into the non-PC consumer space (network computers, home appliances, HDTVs, game bezes, etc).
  - > Also rejected "for use only in products capable of running Windows"
- Unwilling to accept our "Covenant not to sue" clause.
  - Will accept a modified clause that provides us and other IHVs with a lot less protection.
  - Agrees not to sue if there is no feasible alternative.

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#### SITUATION ANALYSIS

- Intel is taking a hard line. Wants Talisman technology with no restrictions.
- Probably indicates that they believe that they are on-track to set the PC 3D graphics standard.
  - > Successfully creating market awareness of Intel = Multimedia.
    - MMX press and hype.
    - » Commercials (including the Superbowl).
    - » Andy Grove at Comdex.
  - Paying to have titles created for MMX and Auburn.
  - Very active in generating a 3D industry standard benchmark.
  - May be able to place Auburn on up to 40% of the motherboards.
- · Have done this before with motherboard thip sets.

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### SITUATION ANALYSIS

- Why do we care if Intel sets the hardware standards?
  - Multimedia and 3D graphics will be a major focus of innovation for consumer PCs for the next five years or so.
  - We need to continue to add value in software. 3D and Multimedia is a major opportunity to enhance Windows and our APIs.
  - Want Talisman and DirectX to win to have the software opportunity. Other 3D architectures have limited or no ability to add value in software. Performance is best achieved with a "thin" APL
    - » OpenGL implements the API in hardware.
    - a Direct to the hardware programming completely takes us out of the loop.
- . Giving Talisman to Intel puts them in a "no lose" situation.
  - Great if Auburn wins; otherwise switch to Talisman with no restrictions.

Marine Continue

- Get back in sync with Intel on 3D and Multimedia.
- Intel to push and use DirectX and Windows.
  - · Microsoft is out of the loop on Auburn.
  - Intel currently appears to be supporting DirectX, OpenGL, GLIDE, and a "direct to the hardware" register interface.
- Intel to incorporate Talisman technology into their future products.
  - > Talisman is a software intensive multimedia architecture.
  - > Allows us to add value for years to come in software.
    - · Chuaking, shadows, reflections
    - Image reuse
    - » Regulation of resources
    - » Higher level constructs (not just triangles)

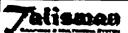
Married Continued



#### STRATEGY

- · Negotiate for what we want: DirectX API and Windows.
  - LOI indicating that they will incorporate Talisman into future Auburn chips and evangelize DirectX as primary interface.
  - May need to make Talisman a joint MS/Intel program to make this work.
- Get more aggressive on making DirectX win.
  - > All Microsoft published titles authored to DirectX.
  - > Aggressively fund content development for DirectX and Talleman.
  - Push consumer awareness of DirectX. Equate DirectX with compelling title that installs easily and runs well.

Married Continues



### **3D PATENT BACKGROUND**

- Did patent search for "3D + Graphics"
  - ► Intel = 11 "hits"
  - > Leckheed-Martin = 20 "hits"
    - » Includes GE Flight Sim, Loral, Reni3D, CalComp.
    - » Loral, before being acquired, had \$200-300M in annual patent royalbes.
- · Lockheed-Martin in suit with SGI over 4 patents
  - > Case history shows that they had discussions prior to filing suit.
  - Our review not yet complete.

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BACKUP SLIDES

Married Constitution

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#### **INDUSTRY WATCH**

- 3D projected to fuel Desktop and Consumer PC growth.
  - Desktop PCs today are fast enough to run Word and Excel
  - + 3D is the current industry focal point (40+ companies).
  - No particular vendor has a dominant position or technology to allow them to achieve a dominant position.
  - > This is fertile ground for Intel to enter and dominate.
- 3D and multimedia offers unlimited near-term opportunities to innovate and achieve higher performance and quality.
  - Today 3D games look worse that good 2D games.
  - Expect consumers to want Toy Story than Juramic Park.
  - We have a long way to go. Major quality and performance enhancements required to enable 3D in the eneporate environment

Married Comments



### NEED TO PAY ATTENTION TO INTEL

- Strong push by Intel to own, drive, and control multimedia hardware on the PC.
- Intel plans to release a new 3D graphics controller every 6 months starting with Auburn at the end of '97.
- Very active on generating their own 3D benchmark.
- Published their own multimedia specifications (like PC '9x)
- Marketing push to associate Intel with Multimedia.
- Paid S 10M for MMX optimized titles.
- Paying to have Auburn titles developed now.

Continued

Intel appears to be taking 3D and multimedia very seriously

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# intel

- Wants to grow their franchise and control their own destiny.
- Multimedia is the key.
- Multimedia Plan:
  - Create chips as good or better than everyone else's.
  - Put them on 40% of the motherboards.
  - Intel solution becomes pervasive, thereby own the spec, win most of the business, control the evolution of the technology.

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# **Microsoft**

- Wants to grow our franchise (including beyond the PC.)
- Multimedia is one aspect.
  Content is the key.
- · Multimedia Plan:
  - Own the APIs and we're indispensable to the content and we own the platform.
  - Make PC multimedia pervasive (games, consumer, corpo rate), converge at EDFD #DPC
  - > Lead the industry:
    - PC 9X, DirectX, ActiveX, Benchmarking, Talaman, . . .

# Talismas

# ADDING VALUE IN LAYERED SOFTWARE

- First have the opportunity
  - Eliminate standardized hardware register interfaces. Encourage and support multiple vendors so none bostoms the defacts standard.
  - Have our APIs be the only standard interface. No way for content to write around Windows and DX.
  - Add value (do more) in DirectX and higher APIs.
  - Also allows more innovation on the adapter card.
- · With the content written to our APIs, the industry follows:
  - Value added technology provided at low cost to all, but only accessible through our APIs.
    - . Automatic sprite management, flexible resource management, etc.
    - . Much of the apportunity for innovation lies in the higher level APIs.
  - Microsoft defined industry standards and benchmarks.

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Protect and grow our franchise.