

Applications

3D Content Creation

3DESIGN™

Marketing Administrator
Alias Wavefront
110 Richmond Street East
Toronto, ON M5C 1P1
Canada
416-362-9181
416-362-0630 (fax)
800-447-2542 (tollfree)
<http://www.aw.sgi.com/>

3DESIGN™, Alias | Wavefront's advanced NURBS based modeling package, combines the best of both surface and solid modeling techniques, providing maximum creative freedom for animators to efficiently construct intricate and fluid three-dimensional shapes. With full Undo/Redo capability hierarchy, objects can be rebuilt automatically whenever any competent is modified. 3DESIGN is a full featured NURBS modeler designed to integrate curves, surfaces and polygons.

IRIX version compatibility:

ALIVE!™

Jan Mallis
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(PROTO)ZOA Inc.'s ALIVE!™ is a state-of-the art animation system for three-dimensional computer-generated characters and environments. ALIVE!'s strengths are in allowing computer-generated characters to be used in live contexts, in providing much higher throughput than typical keyframig techniques, and in developing 3-D interactive environments.

ALIVE! provides the capability to map any data source (3space trackers, dials mouse, waldos, files, etc.) to any animated structure (arbitrary hierarchies, metamorphosing models, lights, cameras, particles, etc.), using a powerful algebraic expression syntax. Channels can be interconnected, recorded, and played back to create complex procedural behaviors. ALIVE! can synchronize to digital audio, SMPTE or virtually any time source. ALIVE!'s open dynamic plug-in architecture allows for a high degree of extesibility by third-parties and end users.

ALIVE! is based on OpenInventor, and can support models created from virtually any modelling system.

For further information, fax us at 415-824-0389, or email alive@protozoa.com.

IRIX version compatibility: 5.3, 6.1, 6.2 Certified, 6.3

Animation/Visual Effects

Hirofumi Ito
Production Coordinator
Magic Box Productions, Inc.
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310-550-7226 (fax)

Computer-generated images/animation and visual effects for the entertainment, theme park, and interactive multimedia industries.

IRIX version compatibility:

3D Content Creation

Antics™

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Antics™ is a comprehensive new tool for 2-D animation productions of all kinds. It is an integrated software for artists, designers, and animators. Developed originally for top-quality broadcast and high-resolution cinema use, Antics now offers high speed and low cost so it is accessible to the smallest studio. It is an open system, interfaces with images from any external sources, and includes direct control of recording devices, with output to any chosen medium at any resolution. Antics is used in TV, advertising, cinema, education, research, and business graphics. Currently available direct from developers. Distributor inquiries invited.

IRIX version compatibility:

Autolook®

Ilija Kovacevic
Kovac Software
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44-01-889-881223 (fax)
ilija@kovac.com
**[http://www.kovac.com/
software/](http://www.kovac.com/software/)**

Autolook® is an extremely interactive model management tool combined with powerful real-time viewing and rendering. It can manage models from AutoCAD® (dwg, dxf), 3DStudio®, VRML, SGI Inventor IV™, Alias, SoftImage, Wavefront OBJ™, Pixar RIB™, IGES™... The models can be viewed in real-time, copied, deleted and drag and dropped into compliant applications. Data describing the models, and modeller, can be attached to and viewed/edited by your designers.

IRIX version compatibility: 5.3

BioVision™

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Optimum Human
Performance Center
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4708
USA
415-292-0333
415-292-0344 (fax)
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BioVision™ offers 3-D data acquisition, visualization, and analysis of any motion with no strings attached. BioVision Software in conjunction with our 3-D data acquisition system captures animations of any size.

BioVision's unique transformation capability calculates all 6 degrees of freedom for each segment perfectly replicating the subject's actual motion. BioVision is available for consulting and motion capture in-house as well as on location. BioVision optimization date is available for Alias, N-World, SoftImage, Wavefront, and 3-D studio.

IRIX version compatibility:

Creative Motion Editor™ (CME)

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<http://www.aoinc.com>

The Creative Motion Editor™ (CME) is designed to run with Adaptive Optics Associated, Inc. Multi-Trax™ Digital Motion Capture System. The CME gives animators flexibility throughout the motion capture process. The CME allows animators and other computer graphics artists to visualize, modify and shape the motion data in 3D space with full creative control. The CME is the solution for Marrying motion capture to animation software.

IRIX version compatibility:

3D Content Creation

DYNAMATION™

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416-362-0630 (fax)
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DYNAMATION™ is a powerful animation tool for interactively creating and modifying realistic, natural images of dynamic events. The resulting images come from the seamless blending of behavioral data and user-specified information describing shape, color and motion. DYNAMATION is a complete, user-controllable 3D animation environment which allows users to apply the rules of physics to individual particles, object coordinates or raster images in a consistent manner. DYNAMATION includes a graphic user-interface, a high-level command language, and an easy-to-use library of effects called Clip F/X that allows users to quickly create physically based effects.

IRIX version compatibility:

DataShop™ 3D Datasets

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Director of Sales
Viewpoint Datalabs
International
625 South State Street
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801-229-3000
801-229-3300 (fax)
800-DATASET (tollfree)
benoyt@viewpoint.com
<http://www.viewpoint.com>

Viewpoint's DataShop™ offers access to over 3500 high quality 3D models called Datasets. Products are marketed to broadcast/film professionals, game developers, military simulation specialists, multimedia producers, and medical visualization experts. Datasets are sold in collections, individually, or through library memberships. DataShop CD-ROMs export 3D models in all major 3D formats, as well as montionsets from Biovision and Geographic Texture Maps. Call 1-800-DATASET or 801-229-3000.

IRIX version compatibility:

Digiflex Motion Picture Film Scanner

Robert Gould
President
Copper Mind, Inc. (CMI)
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USA
818-718-0366
818-700-2835 (fax)

Digiflex Motion Picture Film Scanner is a kit which connects to an optical printer. The kit consists of a camera, lamp house, electronics, and power supply which connects via scsi to the Indigo line of SGI computers. Digiflex scans film at resolutions up to 3K by 2K, with scanning speeds as fast as 12 seconds a frame. Digiflex comes with all manuals and software.

Digiflex is the quality answer to low budget film scanning.

IRIX version compatibility:

ExpertVision™ Motion Capture System

Dean LaCoe
Vice President
Motion Analysis
Corporation
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707-579-6500
<http://www.crl.com/~macorp>

Motion Analysis Corporation is the world's largest manufacturer of high performance video/computer based instrumentation systems for motion capture and for testing and measuring the movement of objects. The Corporations' ExpertVision Systems combine proprietary hardware, software, and electro-optical techniques with standard computer and video hardware. These systems evaluate motion in a wide variety of performance capture, medical/rehabilitation/sports, life science (microscopic), and industrial applications.

The Corporations's FaceTracker product is a helmeted PC-based 2-D system used for generating cartoon faces quickly and economically.

IRIX version compatibility:

3D Content Creation

Ez3D™ Modeler Pro

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A rendering system for UNIX workstations. Ez3d provides high-end tools at entry-level prices, breaking the price barrier in workstation-based modelers. To quote AV Video (Dec 1994), "A Modeler for the common man. You don't have to be a rocket scientist - or a millionaire to use (it)". Ez3d can be put to creative use not only in entertainment and broadcast graphics, but also areas like mechanical and industrial design, molecular modeling, architectural simulations, and scientific and medical visualization. Ez3d is ideal for creating models in the Open Inventor format, as well as several industry standard formats. Open Inventor has been adopted as a standard for VRML (3D on World-Wide Web), and the Silicon Studio Framework for Entertainment Authoring.

IRIX version compatibility: 5.2, 5.3, 6.x

GSI-ART

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GSI has developed a powerful, state-of-the-art geometric database articulation package that simulates a wide variety of robotic and machine systems incorporating various structures (hydraulic cylinders, rotator cuffs, universal, slide, pivot joints).

This software allows the user to inject grips, joint definitions and constraints. A second version will include efficiency enhancement tools, a superior interface, an expanded constraint set, and visualization and animation tools.

The articulation tool is capable of acting on a wide variety of database formats including CSG, complex surface, and facet. Users must first obtain a free BRL-CAD license.

IRIX version compatibility:

KINEMATION™

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KINEMATION™, Alias | Wavefront's solution to 3-D character animation, simplifies the kinematics process with its unique Digital Doll method. KINEMATION represents the next generation of character animation software, allowing complete control of the skeleton by integrating forward and inverse kinematics. Animators can bring static models to life by directly manipulating a user-defined skeleton of a marionette. To maintain a natural form as the skeleton moves, KINEMATION incorporates behavioral model into its Smart Skin™ that can be taught to behave according to a skeletal position or time. Alias | Wavefront provides new tools that incorporate state of the art techniques in 3-D kinematics motion, skeletal intelligence and skin behavior.

IRIX version compatibility:

LambSoft™ Motion Viewer

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<http://www.lamb.com>

LambSoft™ Motion Viewer is an independent 3-D animation environment for directly capturing viewing, refining, editing, key framing, manipulating and exporting captured motion data and creating action-packed 3-D scenes. Motion Viewer is a complete scene blocking software system that provides precise creative control over the action and all of the elements in a 3-D scene. It is designed as a creative system for operators of motion capture systems, animators, directors, and game developers for whom captured motion data is an important digital creative asset. LambSoft Motion Viewer is endorsed by Motion Analysis and Ascension Technology, leading providers of motion tracking systems to the entertainment industry.

IRIX version compatibility: 5.2

3D Content Creation

LightWave 3-D

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LightWave 3-D is an all-in-one photo-realistic animation system. As part of the Emmy award-winning VideoToaster, LightWave 3-D has been used on television shows such as seaQuest DSV, Babylon 5, Hercules and Star Trek: The Next Generation. LightWave 3-D is used by tens of thousands of people worldwide.

With an incredibly powerful modeler, superb rendering quality and an extremely intuitive interface, LightWave is the choice of professional 3-D artists. No other 3-D package offers this much power and flexibility at such an affordable price.

IRIX version compatibility: 5.2

Modam™

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Modam™ V1.0 is a graphical modeling and animation tool that provides an inexpensive alternative to high-priced animation packages. In Modam, you define objects in terms of geometric primitives (plastics, cubes, cones, spheres, etc.). Model definitions are entered in an interactive environment that offers traditional drafting views (top, bottom, side and perspective). The defined primitives are then grouped to form bodies. The bodies may in turn be driven in an animation sequence by externally provided motion data.

Modam can be used in many applications that require easily produced, low cost animation sequences. This includes robotics, spacecraft dynamics, advertising, the automotive industry, etc.

IRIX version compatibility: 5.2, 5.3, 6.0

Monkey™

Greta Peterman
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212-343-2442
212-343-0440 (fax)
info@didi.com
http://www.didi.com

The Monkey™ is a 24" tall movable mannequin that is used as a desktop solution to motion and position capture for character animation. As you move the Monkey your on screen 3-D model moves along in real time. You can save the positions you like as key-frames and create an animation sequence in a short amount of time. There are 36 sensors at key human joints on each Monkey. The Monkey plugs into any RS-232 port.

IRIX version compatibility:

3D Content Creation

Motion Director

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Motion Director is a program for Silicon Graphics that provides a cost-effective solution for 3-D animation, photorealistic rendering, paint effects and image processing. It allows users to import and animate 3-D models, choreograph camera movements, create photorealistic renderings of scenes, and output completed animation at almost any resolution to film and video. Motion Director's principal markets include architectural visualization, product prototyping, corporate and professional video production, and game and CD ROM developers. Motion Directors comes bundled with MetaVision's Imagination paint and image processing package. An optional library of more than 150 models is also available.

IRIX version compatibility:

Motion Sampler2 Sound Sync for Alias PowerAnimator™

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612-339-9091
612-339-8991 (fax)
scott@windlight.com
http://www.windlight.com

Please see the Alias Research PowerAnimator™ listing.

IRIX version compatibility:

PIXISCAN™

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France
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33-1-49-85-16-96 (fax)

PIXISCAN™ is a system for the industrial production of cartoon series. It offers complete control of cost, planning, and final image. Adapted from traditional animation procedures, it is easily accessible to professional animation technicians and does not require any specific computer knowledge.

Some of its many features are automatic scanning and painting, powerful camera and peg motions, all kinds of special effects, real-time checking, mixing with 3D animation or live images, output to video (PAL/NTSC), 35mm film, and HDTV.

IRIX version compatibility:

PRISMS 6.1

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http://www.sidefx.com

PRISMS 6.1 is a high-end computer animation and image manipulation system. It includes inverse kinematics, skeletal animation and deformation, particle systems, collisions and springs, modeling, motion, lighting and rendering. PRISMS' new modeler includes NURBS, polygons, bezier and bspline curves and patches, meta-balls, wireframes, spheres, and particles all combined into one user interface. PRISMS' unique architecture of connectable building blocks makes even the most complex projects manageable. PRISMS 6.1 supports network licensing. For target audiences, see "Houdini 1.0" product.

IRIX version compatibility: 5.3, 6.1, 6.2 Certified, 6.3 Certified

3D Content Creation

Puppet Works™

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Puppet Works™ is a reconfigurable, electromechanical puppet for 3D animation motion input. Puppet Works™ is used by animators for three dimensional (3D) computer animation. Puppet Works™ is a system of rugged, high quality, instrumented 2 degree of freedom joints which can be connected in a Tinker Toy® like fashion to represent any 3 dimensional model. A software utility then allows the user to quickly and easily 'connect' the mechanical stick puppet to their 3D computer model counterparts. Once connected, the motions of the puppet will drive the motions of the animation. These motions can then be captured in either a continuous or a stop frame fashion to create the animation. Puppet Works™ both reduces the number of hours required to produce these animations while allowing the artist/producer to work in a creative, more intuitive and natural way.

IRIX version compatibility:

Render Base™

Derek Woolverton
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520-779-4337 (fax)
woolstar@infomagic.com
http://www.twinforces.com/

Render Base™ provides rendering of StrataVision™ and Strata StudioPro™ models. Artists submit scenes using a Macintosh® front end and receive their completed images as PICT or Quicktime® files. While the Silicon Graphics workstation renders the images, the Macintosh is available for other tasks.

IRIX version compatibility:

TEXT 3-D, TEXT 3-D ARABIC

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Director
Stan Jesmanowicz Imaging
B.V.
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jesman!stan@relay.nl.net

TEXT 3-D, is an interactive 2-D and 3-D text generator primary meant for computer animators. Any Adobe type-1 font can be used as a source, and text can be interactively typed while rotating in 3-D space. Different revealing and depth can be specified. Arabic version of the program uses Naskh, Ruqah and Thulth fonts, decotype arabic context analysis, and special effects as swashing, stretching and character extends.

Outputs: Wavefront, Softimage, Inventor, GIG DXF.

IRIX version compatibility:

The Optical Bench®

John Moore
President
Digital Compositing
Systems, Inc.
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USA
954-438-9541
954-433-5707 (fax)
JMoore_DCS@Bellsouth.net

The Optical Bench® is a digital compositor that is fast, easy to learn and easy to use. Among its key features are:

- A graphical user interface
- Support for various image formats, including Alias, Wavefront, SOFTIMAGE, SGI, Targa, TDI and YUV. Images can either be animated or static
- An extensive preview system featuring built-in flipbook and shotbox system. The shotbox system allows for the creation and comparison of up to five different versions of a composited frame
- Effects include glows, blurs, shadows and variable transparency
- Conditional compositing operations
- Visual time line, and much more

3D Content Creation

IRIX version compatibility:

ULTRATRAK™ Motion Capture System

E.W. Costello
VP, Marketing & Sales
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One Hercules Drive
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802-655-1439 (fax)
800-357-4777 (tollfree)
e_costello@polhemus.com
<http://www.polhemus.com/trackers/>

The ACADEMY AWARD® winning Polhemus technology used in ULTRATRAK™ PLUS makes this the ultimate motion capture systems. It is the only motion capture system that provides real-time data from a virtually unlimited number of sensors. The exclusive LOG RANGER transmitter provides coverage over an area of more than 700 sq ft with no line-of-sight problems. This easy to use, completely integrated system, comes in single chassis that contains a server, Ethernet or SCSI interface and all electronics. ULTRAMAX PLUS is compatible with most popular motion capture software packages including those from Alias, Autodesk, Side Effects, SoftImage, and Wavefront.

IRIX version compatibility:

VActor™ Performer

Dave Verso
COO
SimGraphics Engineering
Corporation
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VActor™ Performer is a real-time character animation system which allows actors, using special input devices, to animate computer generated characters ("virtual actors" or VActors) with their own movements, live and real-time. VActors can be created based on any character, product or mascot. VActor Performer can be used to create attractions and exhibits at trade shows, corporate presentations, theme parks, stadiums, and family entertainment centers. VActor Performer can also be used as a more cost-and-time-effective means to create computer animation.

IRIX version compatibility:

VActor™ Xpression

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VActor™ Xpression is a software product that converts raw motion data created from a facial capture session into usable motion data for export into leading 3rd party software packages for additional animation, composition and rendering. Xpression supports a variety of 3rd party facial input devices and allows the user to visualize his or her animation in real-time as the motion is being captured. Xpression maps the facial motion onto models imported from leading animation packages such as Alias, Softimage and Wavefront, and then exports the result back to those packages for final processing.

IRIX version compatibility:

3D Content Creation

Vertigo

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Vancouver-based Vertigo Technology Inc. is a world leading provider of quality 3-D animation and visualization software products. The company develops, supports and markets a complete range of 3-D animation and visualization software for professional artists and designers at post-production, broadcast, special effects, and animation facilities worldwide.

IRIX version compatibility: 5.2

WALKTHRU v3.4

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http://www.jacobus.com/

WALKTHRU Version 3.4 provides model review and construction simulation solutions to both large and small Architectural, Engineering, Construction companies. Plant owners and operators both use WALKTHRU to simulate maintenance and operations procedures. WALKTHRU allows users to interactively visualize and manipulate 3D models created in MicroStation, AutoCAD, IGES, DXF and many other CAD formats. Interactive features include body position, speed, direction, perspective angle, object motion, object hierarchy, object attribute query, tagging of dimensions and notes, multiple light sources, texture application, record/replay, frame-by-frame output to video, and more. Requires 24-bit graphics with Z buffer. WALKTHRU is a trademark of Bechtel Corporation.

IRIX version compatibility: 5.2

Waveman

Mark Lambert
President
Mind's Eye Graphics, Inc.
115 Shockoe Slip
Richmond, VA 23219
USA
804-643-3713
804-643-3738 (fax)

The WaveMan Interface links the Advanced Visualizer from Wavefront Technologies with the enhanced imaging capabilities of PhotoRealistic RenderMan from Pixar. The user designs an animation just as he/she always has, using the Wavefront's MODEL and PRE-VIEW modules. The WaveMan program then replaces the Wavefront Image program for the final rendering of the image. The program reads the standard Wavefront geometry and motion (.pv) files and uses the PhotoRealistic RenderMan software to generate the final image. The interface fully supports Wavefront options as well as providing access to RenderMan's capabilities and shader language.

IRIX version compatibility:

Whole Body Scanners

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USA
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sales@cyberware.com
http://www.cyberware.com

Cyberware introduces the Whole Body Scanner. A scan is completed in 17 seconds with four scanning instruments to create high resolution 3-D color models of the complete human body. These detailed models are useful to animators, anthropologists, designers and the medical profession.

IRIX version compatibility:

3D Content Creation

eXtreme fx MPR™

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CELCO, the technology leader in Digital Color Film Recording, has introduced the new eXtreme fx MPR™ Digital Motion Picture Film Recorder. Featuring virtually no halo, sharp, accurate color, and fast output speed, the eXtreme fx MPR is the only digital film recorder for the motion picture industry. Long-term exposure stability, reliability, and ease of use make the CELCO eXtreme fx MPR the only choice for large scale digital imaging projects. Join with those in the motion picture industry for which compromise is not an option.

IRIX version compatibility:

flesh

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flesh gives artists the tools to paint directly on 3-D models in real time, with effects and realism never before attainable. flesh also provides advanced tools for texture coordinates control, generation and manipulation. Up to 8 different texture channels can be painted: color, ambient, diffuse, specular, roughness, opacity, and one of the unique features of flesh: the bump (displacement) channel. flesh supports all major industry standard i/o formats. Specially adapted to character generation and animation, the quality and realism that can be achieved is incredible. Because of its real-time interactivity, flesh also brings a superior quality look to the simple models required by GAME applications.

IRIX version compatibility: 5.3, 6.2

fxgamma™

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fxgamma™ is a full featured Color Look Up Table editor used for calibration of the CELCO eXtreme fx series digital color film recorder. Featuring virtually no halo, sharp, accurate color, and fast output speed, the eXtreme fx MPR is the only digital film recorder for the motion picture industry. Join with those in the motion picture industry for which compromise is not an option.

IRIX version compatibility:

fxplot™

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fxplot™ is a full featured raster driver optimized for the CELCO fxplot (MPRTM) digital color film recorder. Supported raster formats include SGI, RGB, TARGA, PICT, TIFF, ALIAS, WAVEFRONT, CINESITE, and SOFTIMAGE (PIC). fxplot is now available in both graphical and command line user interfaces. Featuring virtually no halo, sharp, accurate color, and fast output speed, the eXtreme fx MPR is the only digital film recorder for the motion picture industry. Long-term exposure stability, reliability, and ease of use make the CELCO eXtreme fx MPR the only choice for large scale digital imaging projects.

IRIX version compatibility: 5.2, 5.3, 6.x

3D Content Creation

inScape™

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http://www.didi.com

inScape™ is Desktop Virtual Reality software that allows you to build, view and interact with virtual worlds inexpensively. Use your SGI system combined with stereo glasses and head tracker to turn your monitor into a full color, high-resolution virtual reality arena you can look into and around.

inScape is available for IRIS GL, Inventor and the AVS scientific visualization environment. No programming is necessary for AVS version. GL and Inventor versions require inserting five additional lines of code into existing applications.

inScape is suitable for data visualization, entertainment, architecture and is used on Wall Street and in research laboratories worldwide.

IRIX version compatibility: