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(the Elan/XS information given here refers to the use of these graphics subsystems with IRIS Indigo)

Elan & XS Graphics Subsystems

IRIS VME Series

Create Graphic Realism Using Industry-Standard IRIS Graphics Library



The driving force behind the IRIS VME Series Elan & XS Graphics Subsystems is a sophisticated set of programming routines called the IRIS Graphics library (GE). Programmers can access more than 450 GL functions to build realistic, interactive 3D images. Features include:

- Industry standard X/Motif support
- Define objects in any convenient coordinate system before modifying them using powerful, easy-to-use 3D transformations
- Access a broad array of input devices - including mice, keyboards, digitizing tablets, track balls, space balls, joysticks and data gloves - in a uniform fashion
- Basic 2D & 3D drawing modes
- Hidden-surface removal, anti-aliasing
- Transparency, Gouraud shading, Reflection mapping

Put Thousands of 3D Graphics Application Packages To Work With Your Product

Because all IRIS VME Series products are 100% binary compatible with the full line of SGI RISC workstations, you can choose from among thousands of exciting 3D application packages from hundreds of vendors. These include:

- Scientific visualization

- Virtual reality
- Aircraft & vehicle simulation
- Image processing
- Visual application development environments

Embedded Workstation Graphics Options

The IRIS VME Series Elan & XS Graphics Subsystems bring Silicon Graphics' highest performance desktop graphics to VME format systems. Packaged in industry standard 6U VME format, the Elan-V, XS-V and XS24-V graphics are easily integrated into your company's products. These graphics systems allow you to add interactive visual realism to your application, this enables creating and manipulating realistic, full-color, 3D images in real time. Because its 100% binary compatible with all SGI's workstations, Elan-V & XS-V and XS24-V graphics provide a common environment for your development and target systems.

Typical Applications

Medical Imaging: Integrated into MRI or ultrasound scanning equipment, enables medical personnel to reconstruct and manipulate body images in real time.

Control Room Displays: Compact rack-mountable system provides high-resolution display of aircraft test data, radar tracking, or industrial controls.

Aircraft & Vehicle Simulators: Elan-V's advanced 3D graphics, can display dynamic air & ground views with other vehicles, scenery & heads up display data.

IRIS VME Series Elan V, XS24-V & XS-V Graphics Subsystems

Advanced Graphics Functionality

- Multiple lighting source effects:
    - Spot lighting
    - Eight light sources
    - Two-sided lighting
    - Ambient, diffused and specular effects
- Fog and haze effects
- Alpha blending
- Anti-aliased RGB lines and points
- Texture mapping
- Depth cueing, dithering, stenciling
- Soft shadow and depth of field

- Sub-pixel positioning
- Stereo graphics

Features & Performance:

Screen Refresh Rate	60Hz / 72Hz
Overlay/Underlay Window ID Planes	4 overlay / 4 underlay
Screen Resolution	1280 x 1024 pixels
Color maps	Two (4096 colors each)
Software Pixel DMA Transfers	
8 bit/pixel	30 Million/sec
32 bit/pixel	12 Million/sec
Screen Clear	8 milliseconds
IRIS GL Display Modes	RGB double buffer
	RGB single buffer
	Color index double buffer
	Color index single buffer

	XS-V/XS24-V	**Elan-V**
# VME slots	3	4
Z-Buffer	Optional	Standard
Color Planes	8/24	24
2D Lines/sec (1)	250K	1 Million
3D Lines/sec (1)	250K	1 Million
Polygons: (2)		
Flat No-Z, TMesh	80K/sec	350K/sec
Gouraud Z, TMesh	60K/sec	225K/sec
Gouraud Z Quads (3)	25K/sec	100K/sec
3D Points/Transforms	250K/sec	1 Million/sec
Characters	100K/sec	200K/sec

1. 10 pixel, connected, arbitrarily rotated
2. 50 pixel triangles, arbitrarily rotated
3. Filled 10x10 pixels, 4-sided, independent quadrilaterals, arbitrarily rotated

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