

Applications

GIS & Defense Imaging

ARC/INFO®

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ESRI's ARC/INFO® software is the most widely used geographic information system (GIS) software available today. ARC/INFO provides hundreds of the most sophisticated, yet easy-to-use tools for map automation, data conversion, database management, map overlay and spatial analysis, interactive display and query, graphic editing, address geocoding and network analysis, surface modeling and display, and automation through coordinate geometry. ARC/INFO application areas include utilities (gas, electric, water/wastewater, telecommunications), oil and gas, state, local, and government, transportation, and more.

IRIX version compatibility:

ArcCAD/LIS

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ArcCAD/LIS allows AutoCAD software, running on a DOS PC, to update an ARC/INFO database running on an SGI workstation.

IRIX version compatibility:

ArcView®

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ArcView® is a powerful software tool that brings geographic information to your desktop. ArcView gives you the power to quickly visualize your data together with existing geographic databases and to explore it in new ways. ArcView is highly integrated with other applications, including spreadsheets, databases, and word processing, creating a more comprehensive environment for analysis. Any organization that uses maps or geographic information--including local governments, state and federal agencies, universities, utilities, private firms involved in applications such as forestry, marketing/demographic research, mapping/surveying, engineering, retail, oil and gas--can benefit from the power of ArcView.

IRIX version compatibility:

Automatic Route Planning for Low Altitude Flight

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A trajectory-generation algorithm uses knowledge of global mission requirements, aircraft performance capabilities, and a digital terrain map to determine a trajectory between mission waypoints that minimizes threat exposure by seeking valleys. Computation time is typically less than 5 seconds for 100 miles flight route length. Waypoints can be inserted and moved by mouse or touch input. A perspective view of the digital map that is based on digital terrain elevation data and digital feature analysis data provides highlighting of obstacles and mountains.

IRIX version compatibility: 5.3, 6.2

GIS & Defense Imaging

BADGER On Line Service

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Gographic information browser and functionality for selecting, combining, purchasing and down loading geographic databases.

IRIX version compatibility: 5.3

CartaGen™

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CartaGen™ is an optimized real time software library for cartographic applications. It has many applications such as:

- 1) Mission planning, control and command;
- 2) Instructor station for simulators; and
- 3) Mobiles localization and guidance. Available on any Silicon Graphics Workstations, CartaGen offers the following functions:

- Creation or importance of vectorized or digitalized map
- Availability of satellite image
- Real time manipulation (zoom, scrolling, scale)
- Correlation of different kinds of maps (pixel, vectors) and with elevation models
- Use of different standard axes
- Addition of static and dynamic informatio
- Organization of databases in different levels
- Presentation of information with great accuracy
- Interface with users' programs

IRIX version compatibility: 5.3

DIGITUS

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~datem**

DAT/EM Systems International produces digital photogrammetric products ranging from the fully digital stereoplotter DIGITUS to editing and output software programs. DIGITUS is able to accurately measure distances, areas and volumes for any physical object which can be imaged on a CRT. Unlike analytical devices, DIGITUS is not limited by the optical resolution of the film used. Through the use of auto correlation and other computer software techniques which enhance the quality of source material, object measurement can be extremely accurate.

DAT/EM provides digital mapping products to government agencies and private firms in 36 countries. We supply OEM software and hardware to manufacturers that represent over 80% of stereoplotter sales worldwide.

IRIX version compatibility: 5.3

GIS & Defense Imaging

EASI/PACE®

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EASI/PACE® software has significant capabilities in remote sensing, digital photogrammetry, and radar image analysis. An intuitive graphical user interface guides the user through more than 400 programs. Capabilities include image enhancement, classification, orthorectification, data fusion, DEM generation, image map generation, terrain analysis, real-time 3-D fly through, hyperspectral data analysis, SAR geocoding, filtering and texture analysis. A software Toolbox supports user development on new algorithms. live linds to over 40 raster and vector formats are supported, including those of popular GIS packages. EASI/PACE operates on SGI Workstations, PCs Macintosh, UNIX, and VMS Workstations.

IRIX version compatibility: 6.2, 5.x

EASI/PACE™

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EASI/PACE™ software has significant capabilities in remote sensing, digital photogrammetry, and radar image analysis. An intuitive graphical user interface guides the user through more than 400 programs. Capabilities include image enhancement, classification, orthorectification, data fusion, DEM generation, image map generation, terrain analysis, real-time 3-D fly through, hyperspectral data analysis, SAR geocoding, filtering and texture analysis. A software Toolbox supports user development on new algorithms. live linds to over 40 raster and vector formats are supported, including those of popular GIS packages. EASI/PACE operates on SGI Workstations, Pcs MACintosh, UNIX, and Vms Workstations.

IRIX version compatibility: 5.3

EDGE Developers Toolkit

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The Autometric Enhanced Digital Geodata Exploitation (EDGE) Toolkit is a set of modularized software components that provides a rapid and cost effective means for upgrading existing applications, or creating new applications for imagery exploitation, cartography, geographic information and visualization. EDGE Developers Toolkit provides the following fundamental capabilities:

- Coordinate transformations
- Definition and manipulation of coordinate system based and geographically based symbols in 3-D space
- Geographic registration of raster maps with graphic objects, symbols, and DTED
- Import and export of multiple data formats including ALMAZ, LANDSAT, SPOT, ADRG, DMA DTED, USGS DLG, and others
- Contour plot generation
- Interactive 3-D perspective views

IRIX version compatibility: 5.3

GIS & Defense Imaging

ERDAS IMAGINE® - Superscript

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ERDAS IMAGINE® Version 8.2 is a highly customizable Image Processing and raster-based GIS package with exceptional classification, spatial analysis/modeling, virtual image size, geographically linked windowing, and hardcopy map output capabilities. Additional modules provide soft copy photogrammetry, advanced radiometric restoration, ARC/INFO vectors, automatic image registration, radar, and terrain modeling capabilities. Applications include natural resource management, environmental monitoring, urban/regional planning and site selection, geotechnical exploration, forestry, cartography, agriculture, and defense. ERDAS IMAGINE is available on UNIX-based workstations and Microsoft Windows NT.

IRIX version compatibility: 5.3

EZSCAN™; CDWRITE™

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Document scanning and OCR solution. Supports variety of scanners and OCR in 12 languages. Also included is the inputting tool for EFS. Supports HP, Fujitsu, Ricoh, Sharp and Kodak scanners.

IRIX version compatibility: 5.3, 6.x

Final Approach

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Final Approach is a software product to assist in the design of instrument approaches. All the elements required by airspace planners to rapidly design Instrument Landing System (ILS) or Global Positioning System (GPS) approaches are incorporated. Final Approach offers significant productivity.

The present method of designing flight procedures requires the use of paper maps, templates, forms, calculators and drafting tools. The instrument approach designer also requires an intimate knowledge of flight procedures and specialized criteria. All of these features are embedded into Final Approach. A completed design can be flown in a 3D simulation providing a realistic view of the completed design.

IRIX version compatibility: 5.x

GIS & Defense Imaging

GEOREF GIS®

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The products provided by GSL encompass the complete spectrum of Geographical Information System (GIS) applications. The modules within the GEOREF GIS provide comprehensive solutions for digital mapping; geographical CAD; 3-D digital terrain modeling; spatial networking analysis including powerful dispatching and routing functionality; polygon data management with a polygon data capture subsystem, polygon editor, and polygon overlay and buffering capabilities; remote sensing image processing with feature extraction facilities; and an attribute data record management system.

The GEOREF GIS is being used in a wide range of GIS applications. The modules can be chosen to best suit any GIS user's specific requirements.

IRIX version compatibility: 5.3

GRIPS

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GRIPS is a geographical information system which supports a modern client server concept. GRIPS is running on different UNIX-platforms and uses the relational database ORACLE. Standards like X11, OSF/MOTIF and SQL are completely implemented. GRIPS can deal with raster-and vector-data-structures. GRIPS is the base module for several object-oriented applications for electricity, water, gas, distance heating and various solutions for municipalities, like public planning, public utilities, landuse and zoning of areas. GRIPS and applications are using already more than 300 organisations. POPPENHAGER GRIPS GMBH also offers services like surveying, data-capture, geomatics consulting, applications development, systems integration, scanning and plotting services and data conversion. We also provide customer support and trainings.

IRIX version compatibility: 4.x

GTI-LM

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GTI-LM is a license manager for applications that run on SGI platforms. GTI-LM consists of two parts: a keycode generator and a license validation routine. Keycodes are developed from product names, version numbers, passwords, expiration dates and host name and host ID's.

IRIX version compatibility:

GTI-Workbench for ARC/INFO®

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The GTI-Workbench for ARC/INFO® is a family of software products for developing custom applications in ARC/INFO. GTI-Workbench provides extended mathematical functions, UNIX functions, a node-locking license manager and a Dynamic Link Library capability for embedding custom FORTRAN and "C" routines inside ARC/INFO.

IRIX version compatibility: 5.3

GIS & Defense Imaging

GenaMap™

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Genasys, the world leader in providing Spatial Insight into enterprise information, offers a family of open, standards-based GIS products. Designed to make people and Information Technology resources more productive, the Genasys product suite is an easy-to-use, powerful, fully-integrated set of GIS applications. GenaMap, vector-based GIS, provides sophisticated spatial/attribute analysis with a continuous spatial database, interactive Genius GUI development and topological structure. Additional products: GenaCell--raster/cell mapping, Spatial Viewer--view/query functions, ADT--application development, Digit--map maintenance.

IRIX version compatibility: 5.3

Geo-Located Multi-source eXploitation system (GLMX™)

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Computing Devices International's Geo-Located Multi-source eXploitation system (GLMX™) is a workstation based advanced 3D model-supported imagery exploitation, manipulation and visualization application providing:

- * Rapid 3D Modeling From 2D Image Sources
- * Image Annotation and Presentation Tools
- * Hypertext Presentation Tools (Graphics, Text and Sound)
- * Image Enhancement and Automated image Exploitation & Visualization Including:
 - * 3D Annotation Tools(Projects over any image)
 - * Graphical Image-Based Point and LClick Recall of Intelligence Data
 - * Automated Registration of Multi-Source New Images From Any Perspective With Existing 3D Site Models
 - * Change Detection and Object Detection
 - * Multi-sensor Image Fusion
 - * Image Perspective Transformation
 - * Mission Planning and Rehearsal (Walk-Through/Fly-Through)
 - * Commercial and Military Applications (ie. BDA, PGM, Imagery Declassification,...)
 - * Generation of Exportable Multi-Media Products for use on other Platforms
 - * A Highly Extensive Integration Environemtn For Rapid Prototyping.

IRIX version compatibility: 6.2, 6.2 Certified, 6.x

GeoCADD®

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GeoCADD® provides full computer assisted design and drafting (CADD) functionality. GeoCADD uses GEOREF's own spatial database and is fully integrated with other components of the GEOREF GIS. GeoCADD offers real-time operation through spatial indexes which are maintained for all objects stored in the database.

Real world objects can be organized into logical classes within the GeoCADD database. Any number of textual, graphical, or multi-media attributes may be associated with any object in the databse. Full SQL query capabilities are supported. Data translators are available from GEOREF for translating between industry formats. GeoCADD provides a powerful spread sheet interface to assist in maintaining and editing tabular data. Multiple input & output devices are supported for printing.

IRIX version compatibility: 6.1

GIS & Defense Imaging

GeoCatalogue™

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GeoCatalogue™ provides sophisticated cataloging, data archive and geo-relational query capabilities supporting data management. GeoCatalogue provides tools to access data availability and suitability for both project feasibility and project execution. GeoCatalogue handles both spatial and non-spatial data allowing for a single repository of source data. Handles geo-relational queries with graphical and tabular results. Client/server model allows data to reside across multiple platforms. Easily embedded in a user application via the Application Programming Interface. Open systems architecture operating on multiple platforms, provides graphical spatial and relational query interface, robust archive/de-archive facility, graphical catalogue facility and definition of new data types.

IRIX version compatibility:

GeoSPACE®

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GeoSPACE® provides the solution to the demanding spatial data requirements for multi-level polygon data management within the GIS marketplace. GeoSPACE offers a multi-level spatial data modeling environment which has a multitude of applications including, integrated cadastral systems and multi-level structured databases for facilities management.

GeoSPACE provides a very powerful data modeling capability for building applications which are beyond the scope and potential of purely graphics systems. Full attribute functionality is available within the GeoSPACE software. Textual, graphical, and multi-media attributes may be associated to any entity in the GeoSPACE database.

IRIX version compatibility: 5.3

GeoServer®

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GeoServer® is a client/server spatial processing toolkit for people who want to rapidly assemble spatial data processing applications without the burden of high cost and high overhead associated with traditional spatial data processing systems. GeoServer is a powerful, easy-to-use toolkit for streamlining applications development. GeoServer improves flexibility and performance because of distributed client/server architecture, reduces database development time with rapid data integration, improves performance through high-speed spatial indexes and reduces developer training time with ANSI, SQL, and C language Application Programmer's Interface. Lets your development team focus on the application while it handles the problems of database access, spatial processing and networking. Enables you to maintain your investment in existing software by integrating GeoServer with applications.

IRIX version compatibility:

GIS & Defense Imaging

GeoServerCore®

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GeoServerCore® is a software toolkit which allows developers to easily build map server type applications using client/server and relational database technology. GeoServerCore provides a 'C' callable API that allows programmers to embed geographic functionality in their applications.

GeoServerCore sits on top of either the ORACLE or SYBASE RDBMS and transforms the relational database into a spatial database via custom spatial indexes. In addition to the spatial indexes the product contains a spatial query language known as GeoSQL. GeoSQL provides a means to query data structures in a spatial manner (inside, outside within, beyond). A 3-D data model is provided with GeoServerCore. As spatial or relational queries are performed, the results are buffered in virtual memory for the application to present as needed.

IRIX version compatibility:

GeoTIN®

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GeoTIN® provides the necessary tools to capture and interactively manage three dimensional triangulated irregular network data. Digital Terrain Models can be dynamically created, manipulated, or edited in GeoTIN.

Point sampling functions are also provided. This procedure ties the scattered data points together to form a network of optimal triangles. The user can produce 2-D or 3-D views of graphic objects, such as points, triangles, break lines, height, contours, contour heights, etc.

GeoTIN contains toolkits for in-depth analysis for 3 dimensional mathematical interpolations and planar cross sections. Flooding simulations can also be achieved using GeoTIN analysis features.

IRIX version compatibility: 5.3

Geographic Coding System

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Geographic Coding System adds census-based geocodes, latitude and longitude information and Metropolitan Statistical Area (MSA) codes to files in either an online or batch environment. Geographic Coding System uses the Census Bureau's TIGER file to provide the user with the most accurate and complete USPS database. The advanced version of Geographic Coding System contains the ZIP+4 Centroid file that enables the user to assign latitude/longitude coordinates at five different levels: ZIP+4, Block Groups, ZIP+2, Census Tracts and ZIP codes. Coupled with a demographic database, the users can use the geocoder file to locate and target his best customers and prospects.

IRIX version compatibility: 5.2, 5.3

GIS & Defense Imaging

GoTime™

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GoTime™, (formerly "Where's the Bus™"), is a real-time fixed route transit fleet management and public information system.

GoTime provides public information on the actual departure times of the next two buses for each route on any stop. Information can be accessed easily in multiple mediums including telephone, colour graphics display terminals or kiosks. By telephone, customers need only dial a 3-digit prefix and a 4-digit bus stop number to access real-time information.

Fleet management is provided in real-time by "report-by-exception" with status up-dates occurring in less than or equal to one minute.

IRIX version compatibility: 6.1

HFB360™ HIPPI Frame Buffer

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The PsiTech HFB360™ HIPPI Frame Buffer is an ultra high speed, true color frame buffer with a screen resolution in excess of 4 million pixels. The HFB360™ HIPPI Frame Buffer is the first 2K x 2K display device which can display true color images at real-time rates. Smooth, flicker-free animation is now possible at extremely high resolution.

The HFB360™ HIPPI Frame Buffer provides a perfect solution for visualizing and analyzing the massive amounts of data from high-performance computers. Applications supported include scientific research, simulation, weather forecasting, GIS, medical research, military mission planning, virtual reality, and more.

IRIX version compatibility: 5.3

IMAGER WIDEFORMAT

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The IMAGER WIDEFORMAT set of scanning software provides the ability to scan large documents such as maps, engineering drawings and wall logs on SGI workstations. IMAGER WIDEFORMAT supports the Vidar Truscan 800, the CS400 full color wideformat scanner, CONTEX and Scangraphics scanner.

IRIX version compatibility: pre-5.x, 5.x

GIS & Defense Imaging

IMAGINE® OrthoMAX

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IMAGINE® OrthoMAX is full featured, high performance, low cost soft copy terrain mapping software which offers orthorectification, elevation extraction, and stereo viewing capabilities. Imagine OrthoMAX produces precise terrain maps from large or small scale imagery using commercial-off-the-shelf Sun or Silicon Graphics hardware. The software's geodetic calculations are based on rigorous photogrammetric principles. Extremely high speed generation of orthoimages, DEMs and TINs makes IMAGINE OrthoMAX the ideal solution for both photogrammetrists and GIS specialists. Applications include database development in support of GIS mapping and analysis, orthorectification of imagery, and mission planning visualization. IMAGINE OrthoMAX is an add-on module to ERDAS IMAGINE.

IRIX version compatibility: 5.3

IRAP GeoSea

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IRAP GeoSea is a seabed mapping system which is used by hydrographic offices, survey companies and navies around the world. It is a high quality map production tool designed to handle large numbers of scattered freepoints and line data. The system uses statistical methods for terrain modeling and quality control. Provided with the system is a range of menus to help the user automate and speed up the generation of maps.

IRIX version compatibility: 5.3

IRAP Mapping System

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IRAP Mapping System has been used for over ten years in the North Sea to analyze and solve complex surface modeling problems. The increasing use of the IRAP Mapping System is due to the efficient and fast modeling of heavily faulted areas and flexible rapid volume calculations. The system has a very powerful command language. All routine operations can be customized by the use of the command files and menus. The system has special utilities for velocity analysis, depth conversion, complex fault modeling, sensitivity analysis and easy design of reservoir simulation grids.

IRIX version compatibility: 6.1

Image Catalog

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Image Catalog is an image library and information system that helps ERDAS IMAGINE® users organize and track imagery files. Remote sensing and GIS professionals deal with large numbers of huge files for their projects. Image Catalog maintains information on where files are physically located and on file attribute data and identifying information. The program lists files in tabular format or displays the geographic footprint of the files on a user-defined map. Applications include organization and tracking of imagery and file archive management. Image Catalog is an add-on module to ERDAS IMAGINE, available on UNIX and Microsoft Windows NT platforms.

IRIX version compatibility: 5.3

GIS & Defense Imaging

L.O.M.S.

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L.O.M.S. (Located Object Management System) is a complete integrated environment that controls and validates users, data and operations. This platform is based on GIS technology, so it fundamentally offers functions for spatial data management. But it also manages relational database queries, user accounts, and more. Using a system dictionary it can control and validate data and operations. L.O.M.S. is also conceived to be independent to the underlying operating system and to the GIS and RDBMS used. So it will be possible to replace one of these components without rewriting any applications build on top of this platform.

IRIX version compatibility: 5.3

LT™ (Digital Light Table™)

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LT™ functions as the core of a softcopy mapping system. It provides a stereo image measurement tool for construction of DEMs from stereo pairs. The software features the ability to handle control points, break lines, perform semi-automated matching, and is designed specifically to handle large images. LT™ provides a multi-function image display with zoom and roam capabilities and a feature acquisition menu for collection in stereo and monoscopic viewing models. LT™ is an ideal tool for softcopy mapping for technicians experienced with analytical stereo plotters since its collection functionality is designed after these analog tools.

IRIX version compatibility: 5.3

Library Manager

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Library Manager is a central gatekeeper for a multi-user ARC/INFO database. Library Manager allows users to "check data" out of the database with a lock, so other users can not perform updates. Library Manager provides menu-driven and API customization features, as well as support for Arc/CAD and AutoCAD.

IRIX version compatibility:

NETCON

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NETCON is an application for electric power distribution utilities for building and maintaining network connectivity. NETCON ensures correct topology and network relationships among facilities in an ARC/INFO database.

IRIX version compatibility: 5.3

GIS & Defense Imaging

Neuralog Digitizing System for Maps

Craig Klein
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713-240-2525
713-240-2526 (fax)
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http://www.neuralog.com

NDS/Map allows users to scan maps, drawings and charts and convert lines, curves and point data into digitized (vectorized) information. Neural Network driven algorithms are used to trace lines and curves and find point data. User defined attributes can be assigned to each data item. This information can then be input into GIS and CAD systems.

Converting paper and raster maps and drawings into useable digital information for use in GIS and CAD systems is a time consuming and inaccurate process. NDS will automate the process, reducing the time required and significantly improving the accuracy of the results. On-screen quality control and editing gives the user instant control of the accuracy of all data.

IRIX version compatibility: 5.x, 6.0, 6.1, 6.2

Neuralog Digitizing System for Maps NDS/Map

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Capture Data from any map using the Neuralog Digitizing System for Maps (NDS/Map). Archive your image and vector data (and throw away your digitizing tablet) or hook your tablet right inot NDS/Map.

NDS/Map allows you to scan documents, vectorize those documents, input object information and then output data to a variety of GIS and CAD systems. High-speed, wide-format scanners are available to convert the paper documents to image data, while automatic line-tracing and symbol capture algorithms provide fast and accurate image data capture. Calibration and projection are flexible and easy to set. On-screen quality control and editing give you instant control of data accuracy. NDS/Map is fast, accurate, easy to use and is the most complete data capture system available today.

IRIX version compatibility: 5.2, 5.3

ORCA Planning and Utility System (OPUS)

Slavko Galuga
Special Projects
OR Concepts Applied
7356 Painter Avenue
Whittier, CA 90602
USA
310-907-6700
310-907-6701 (fax)
slavco@orcal.com

The ORCA Planning and Utility System (OPUS) is an automated route planning and utility system for optimizing mission plans for military aircraft. The system performs force level planning including target tie up, and individual sortie route planning for terrain and threat avoidance as well as sensor pointing and weapon release maneuvers. OPUS includes utility functions for manipulating terrain information, radar cross section data, weapon characteristics, vehicle performance data, and route plans. These advanced autorouting capabilities are accessed via a comprehensive GUI to provide a fully integrated mission planning environment.

IRIX version compatibility: 6.1

GIS & Defense Imaging

OpenELT™

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301-953-2368 (fax)
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OpenELT™ is a high-performance software tool for fast interactive manipulation of large 2D digital imagery. Provides ability to smoothly and rapidly roam through imagery that is concurrently being warped, rotated, magnetified, sharpened and enhanced. Advanced capabilities include image comparison, registration, fusion and synchronization. Performs equally well on small (e.g. 1K x 1K) and large (50K x 50K) images. Also available as an easy-to-embed toolkit.

IRIX version compatibility: 6.2

Operations Control System

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hornung@alk.com
http://www.alk.com

The Operations Control System facilitates real-time management of moveable company assets. For example, Canadian National Railways (CN) uses the system to manage locomotives and monitor train operations. The system is constantly updated with the current location and status of each train and locomotive via a connection to CN's mainframe control system. Users can "zoom in" on individual areas and issue directives to the field for implementation. Benefits of the system to CN are improved locomotive productivity, ontime train performance, and reduced manpower requirements. Application markets include railway, mass transit, trucking, highway, and airline operations.

IRIX version compatibility: 6.1

OrthoEngine™

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PCI
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OrthoEngine desktop software generates digital orthophotos from scanned aerial photos. Step by step, the software guides you--from setting up the project to orienting and assembling blocks of photos through bundle adjustment, orthorectification, mosaicking, and exporting. OrthoEngine works with DEM data imported from a wide variety of supported raster formats and can also accept elevation information from previous mapping projects. Once processed, orthos can be written to a variety of formats ready to use in AutoCAD, MicroStation-based mapping systems as well as most GIS systems.

IRIX version compatibility: 6.2

OrthoGIS™

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http://vexcel.com

OrthoGIS™ is a low-cost, easy-to-use ortho photo production software package designed for GIS users. The software was developed to serve the needs of a variety of users, from novice to advanced, who need a simple but precise in-house capability to generate map-quality products from aerial photography. OrthoGIS™ is the first ortho photo production package designed specifically to provide seamless ortho photo functionality for ARC/INFO® users. The system imports topographic compilation data from digital stereo photography and exports ortho-images and multi-image mosaics to ARC/INFO® and other GIS software packages.

IRIX version compatibility: 5.3

GIS & Defense Imaging

OrthoMAX™

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An optional module to ERDAS Imagine, OrthoMAX™ provides for the ingest of digital imagery (aerial and satellite), block triangulation, automatic elevation extraction and orthophoto generation. Fully integrated with ERDAS Imagine.

IRIX version compatibility:

OrthoSAR™

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OrthoSAR™ is an advanced software toolkit designed to remove terrain distortions inherent in Synthetic Aperture Radar (SAR) imagery. OrthoSAR supports orthorectification, geocoding, and registration of SAR imagery to map grids to allow for accurate comparison with other rectified data. Sensor modules include SIR-C, X-SAR, Radarsat, ERS-1, JERS-1 and AIRSAR.

IRIX version compatibility: 5.3

PRI2SM®

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PRI2SM® is a production-oriented softcopy photogrammetric workstation introduced in 1990. PRI2SM is implemented in X Windows/MOTIF, and processes data from SPOT and JERS OPS remote sensing satellites, or from digitized aerial photographs. Includes modeling, triangulation collection and block adjustment, error analysis and production database which guides the operator through a project from data ingest to output mapsheet. Digital elevation models (DEMs) can be ingested from a variety of sources, or generated using stereo imagery. DEMs are generated automatically, or by manual contouring and DEM editing using the digital stereo viewing interface. Feature data is compiled into a variety of mapping packages such as Microstation or AutoCAD, or GISs such as GenaMap or ARC/INFO. PRI2SM is completely compatible with I2S VI2STA remote sensing software.

IRIX version compatibility: 5.2

Quad 7/ES Telemetry Processing System

Mike Grescitelli
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Coded Communications/
Decom Systems Inc.
1939 Palomar Oaks Way
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USA
760-431-1945
760-431-1946 (fax)

Quad 7/ES Telemetry Processing System provides a fully integrated system for the acquisition, processing, and display of telemetry data.

IRIX version compatibility: 6.2

GIS & Defense Imaging

RaST™ (Radar Stereo Toolkit™)

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RaST™ is a low-cost software package that enables digital elevation model (DEM) generation from radar stereo systems. The software toolkit contains all essential functions for top model and ortho image production including fully automated match point collection to greatly reduce processing time relative to manual tie pointing. RaST™ operates with most airborne and spaceborne SAR systems including the Shuttle Imaging Radar (SIR), Magellan, ERS-1&2 and Radarsat. An optional package for electro-optical sensors, SPOT and Landsat is also available.

IRIX version compatibility: 6.1

Radar Module

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404-248-9000
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The ERDAS™ Radar Module processes radar imagery and provides a more complete and accurate representation of the Earth's geography. Radar systems generate their own energy rather than using reflected light, providing you with reliable, consistent imagery of your study area. Radar images can be captured through clouds, fog, haze, smoke and darkness. This module is well-suited for many applications, including emergency response, natural resource management, forestry management, petroleum and mineral exploration, environmental monitoring, and land cover classification. The Radar Module is an add-on module to ERDAS IMAGINE®, available on UNIX and Microsoft Windows NT platforms.

IRIX version compatibility: 5.3

RadarSoft

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Radar data is radiometrically and geometrically different from most commercially available satellite and airborne image data. RADARSOFT analyses these data in the proper manner so as to obtain accurate and useful information from radar data. RADARSOFT performs texture analysis, thus extracting information from the "noisy" data, as well as adaptive filtering to smooth speckle while retaining edges. RADARSOFT allows slant range to ground range conversion, thus handling the special geometry of radar, and performs antenna pattern correction, accounting for near and far range fall-off on Radar signal. Relief illumination effects can be removed from imagery given a DEM, and simulated radar images can be created, also from a DEM.

RADARSOFT also handles basic functions such as image display, manipulation, vector handling, tape I/O, and file exchanges with many GISs. RADARSOFT includes the Radar Analysis and Polarimetric Radar Analysis EASI/PACE Packages, described above.

IRIX version compatibility: 5.x, 6.2

GIS & Defense Imaging

RainDrop

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703-413-4455
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BRA225@PRB.mhs.
compuserve.com
<http://www.d-and-m.com>

RainDrop is a digital softcopy photogrammetric workstation application which allows users to topographic data to report, control and mensorate on 3D object within a stereoscopic display environment. This application can be used to evaluate topographical objects in threee dimensions and generate datasets for use in scene generators and sensor-specific simulations. There are extensive editing functions that allow the user to create, copy, move, and modify models of topographic objects and apply image or grey-shaded textures to those objects for use in synthetic image generations systems ot 2D GIS systems.

IRIX version compatibility: 6.2

SICAD-LM/BK

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Germany
49 89 6010993
49 89 60600451 (fax)

SICAD-LM/BK is a turn key solution for the building, administration and modification of a register of trees by local authorities. It is based on the geographical information system SICAD/open and allows optionally the connection to a database program for any calculations (planning of measures and cultivations, costs, placing of orders, etc.).

IRIX version compatibility:

SICAD-LM/GK

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Germany
49 89 6010993
49 89 60600451 (fax)

SICAD-LM/GK is a turn key solution for the building, administration and modification of a register of grounds by local authorities. It is based on the geographical information system SICAD/open and allows optionally the connection to a database program for any calculations (costs, placing of orders, etc.).

IRIX version compatibility:

STAR CARTO

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011-32-41-67-17-11 (fax)

STAR CARTO is STAR INFORMATIC's solution for GIS. It simultaneously processes vector, raster and alphanumeric data. It has a 3D point database, no limits in database size and a complete set of tools for data capture, management and production. STAR CARTO integrates a number of complementary applications such as Railways & Roads studes, Urban Planning, Impact Studies, Network Design and Management and many others.

STAR CARTO is part of a complete, integrated solution for the design and management of buildings and infrastructures which includes STAR ARCHI (architectural design), STAR INFRA (engineering studies) and STAR TECHNO (buildings management).

IRIX version compatibility:

GIS & Defense Imaging

SoftPlotter™

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The SoftPlotter™ Integrated Photogrammetric System is an integrated end-to-end digital mapping system. It allows for the ingest of digital imagery, both satellite and aerial, multi-sensor block triangulation, automatic DTM collection, orthophoto generation, vector collection and edit and image mosaic. A broad range of vector data, such as DXF and ARC Info, may be imported, manipulated and exported. A fully integrated MicroStation tailored for mapping applications has been added. Key automated features include: production and product management, automatic interior orientation, tie point mensuration and image mosaicing.

IRIX version compatibility:

Softcopy Mapping System (SMS)

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SMS Project Lead
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Products & Technology, Org
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Austin, TX 78760-7100
USA
512-386-4355
512-386-1994 (fax)

The Softcopy Mapping System (SMS) ingests digital map data from a variety of military and civilian sources, permitting data fusion, error correction, space- and color-decimation, weeding, straining, and joining. A graphics library is included which permits the tailored display of this map data, embedded inside your GIS application. Multiple projections, overlays, symbology, user-defined colors, line-of-sight calculations, and map database queries are supported. Performs both 2-D and 3-D renderings.

A map server suitable for use by map database administrators is planned for the end of 1995.

On-line documentation, training classes, product maintenance, ports, and telephone support are also available.

IRIX version compatibility: 5.3

Spatial Query Server™

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The Spatial Query Server™ (SQS) is a high powered spatial query engine built on the client/server model distributable across multiple platforms. The SQS, via custom spatial indexes, transforms the Sybase relational database into a spatial database.

At SQS startup, the database administrator (DBA) can configure the number of spatial servers. This feature allows the DBA the flexibility to efficiently use system resources to meet user demands.

The SQS is integrated into the Sybase Open Server framework incorporating Sybase's client/server expertise with Vision's spatial data handling expertise. The SQS Applications Programming Interface (API) provides powerful mechanisms for query of various spatial types, creation of spatial indexes, and use of the GeoSQL query language.

IRIX version compatibility:

GIS & Defense Imaging

StratLog II™ - Desktop Geologic Interpretation

Sales Department
GeoQuest Systems, Inc.
5599 San Felipe
Suite 1700
Houston, TX 77056-2722
USA
713-513-2000
713-513-2050 (fax)

The StratLog II™ application delivers a comprehensive suite of desktop geologic interpretation and display tools. Built to an industry-standard open architecture, StratLog II software is designed to enhance the users efficiency and accuracy in interpreting complex multi-horizon prospects. Features include: well log management including standard and generic data I/O, curve editing and basic petrophysics; single well interpretation and display for a wide variety of measured and true vertical depth data types; cross sections showing vertical, deviated and horizontal wells with advanced correlation, flattening and well projection functionality, and basic contour mapping. StratLog II will achieve full POSC compliance as it is integrated into the GeoFrame Reservoir Characterization system.

IRIX version compatibility:

TNTAtlas™ (Publishing Spatial Information)

Terry Peterson
Sales Manager
MicroImages, Inc.
201 North 8th Street
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USA
402-477-9554
403-477-9559 (fax)
info@microimages.com

TNTAtlas™ provides a unique, low-cost, innovative approach to the publication and distribution of spatial information via CD-ROM or network. Massive collections of interrelated images of all types--maps, drawings, reports and printed records, databases, and other materials--can be economically and rapidly disseminated for immediate access on all computer types including portables. Raster, vector, CAD, text or database materials can be combined in an atlas.

IRIX version compatibility: 5.3, 6.x

TNTmips™ (the Map and Image Processing System)

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TNTmips™ is a complete integrated image processing, GIS, CAD, spatial database management, and desktop mapping system used in 80 nations from Angola to Zimbabwe. Current uses range widely, including the following: cartography; geology; county, regional, and national planning; archeology; environmental sciences; military analyses; agriculture; and numerous other disciplines.

IRIX version compatibility: 5.3, 6.x

TNTview™ (Visualizing and Interpreting Spatial Data)

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TNTview™ is an interactive tool for the complex combination, visualization, and interpretation of large raster, vector, CAD, geo-located databases, and text objects as layers of spatial information in a single composite view. For example, start with several image layers which are automatically mosaicked during display, and then overlay linear map features to which are attached attributes stored in a relational database.

IRIX version compatibility: 5.3, 6.x

GIS & Defense Imaging

Terrasoar™

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Terrasoar is an on-line system to search, preview and order geographic data sets. The system provides access to Landsat, SPOT, Russian TK350, and KVR-1000 data. Additional data will be added to the system including NAPP, NHAP, ETAK and high resolution imagery made available from commercial vendors and government agencies.

IRIX version compatibility:

Vector Modules

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The ERDAS Vector modules offer users the capability to create, display, symbolize, query and edit topological ARC vector coverage in ERDAS IMAGINE®. With the industry standard ARC/INFO® data model built-in, no conversions or translations are necessary. ERDAS IMAGINE vector files are ARC/INFO vector files. Therefore, vector files created or edited in ERDAS IMAGINE are 100% compatible with ARC/INFO files and maintain full topology. Applications include surveying, mapping, terrain modeling, engineering, and any other vector image processing applications for a GIS. The Vector modules are add-on modules to ERDAS IMAGINE, available on UNIX-based workstations.

IRIX version compatibility: 5.3

VirtuoZo

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VirtuoZo is a software for a fully automated mapping system. The main core is a graphics and imagery processing-system restoring 3-dimensional spatial objects from 2-dimensional images. Based on UNIX operating system, VirtuoZo uses X-Window, OSF/Motif as graphic interface with high portability. VirtuoZO enables even novice users to quickly become adapt in the creation of accurate Digital Terrain Models nad Orthorectified images, using scanned photography or satellite imagery as input. The DTM (Digital Terrain Model) generated by the system can be used in GIS (Geographic Information System), Cartograohy, Urban Planning, Civil Engineering, CAD/CAM, Archeology, Medicine, 3-dimensional computer animation, etc. Because of its high performance/price ratio, VirtuoZo has a very wide market.

IRIX version compatibility: 5.3

Vortext

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8911
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http://www.neosoft.com/

Vortext is an application software package that allows users to query, graphically display, and edit their existing database information. Up to 99 different databases can be combined to form one project. It is a project-based application that can build a data set for viewing which can be broken into any size, and all databases can be actively viewed and queried at the same time. Large areas can be "framed" and a query can select data for viewing and editing from several different databases over a selected area.

Vortext has been developed for the oil industry but can work well with any type of spatial data.

IRIX version compatibility: 5.3

GIS & Defense Imaging

VxSAR™ (Synthetic Aperture Radar Processor)

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VxSAR™ is a low cost synthetic aperture radar (SAR) image formation software package. The software package enables the production of high quality images from essentially all current and archive satellite SAR sensor data. VxSAR™ makes no compromises in precision as it offers a full implementation of the industry standard matched filtering (range/Doppler) algorithm including secondary range compression. It is phase preserving and its output is suitable for interferometric DEM generation techniques. VxSAR™ currently processes data from ERS-1, SIR, SEASAT and JERS-1 satellites. Upgrades are in progress to include processing capabilities for AIRSAR and standard mode RADARSAT data.

IRIX version compatibility: 5.3

Wings™

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Wings™ is an easy-to-use terrain visualization package for a wide range of applications. Images and maps of any size and any resolution may be draped over terrain to display 3-D scenes. Users can interactively move through the environment for an accurate representation of the landscape. An Available Programmers Interface option allows the user to inject their own data into the 2-D and 3-D environments whether real or simulated. A DIS option allows for the display of simulation data.

IRIX version compatibility: 5.2, 5.3, 6.2

WuDAMS

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011-86-27-7814185 (fax)

WuDAMS, which stands for Wuhan Digital Automatic Mapping System is a software for auto-mapping, using aerophotos, spot images and close range images. The available version is 3.0 running on SGI IRIS/Indigo platform in X-window environment. With the pop up and down menu, users can easily digitize the photos, import them into the system, create the 3-D models and get the maps automatically. The main functions include orientation, matching, plotting, drapping and mosaicing. Because of its high performance / price ratio, it has a very wide market.

IRIX version compatibility: 6.1

GIS & Defense Imaging