

ERDAS

READ ME FIRST

ERDAS IMAGINE
V8.4

Release Notes

CONTAINS

- **Installation Information**
- **Configuration Information**
- **Facts to Know**

System configuration MUST be correct before installing ERDAS IMAGINE®. See the ERDAS IMAGINE Installation Guide for platform-specific instructions.

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Release Notes

ERDAS IMAGINE V8.4

Compaq AlphaStation

HP 9000 Series 700 & 800

IBM RS/6000

Microsoft Windows 98 & NT 4.0

Sun SPARCstation

Silicon Graphics - R4400 and up

Introduction

This document provides important information about ERDAS IMAGINE® V8.4:

- Essential updates to installation and configuration instructions
- Facts to know, workarounds, helpful hints, and last-minute information we could not include in the printed documentation



The Installation/Configuration and General sections that follow contain important updated information that is crucial to the successful installation and operation of your software. Please read these sections before trying to install or run ERDAS IMAGINE.

See the ERDAS IMAGINE Installation Guide for complete installation and configuration instructions. Do NOT attempt to install ERDAS IMAGINE without reading this manual.



When reading this document, remember that underlined side heads pertain only to the item immediately adjacent to the underlined side head. For example, item 1 on page 4 applies to SGI platforms only, while other items apply to all platforms.



Backward Compatibility	ERDAS IMAGINE V8.4 has increased functionality. In a few cases it has been necessary to extend or even change the format of some of the files generated by ERDAS IMAGINE to provide these new features.
Image Files	ERDAS IMAGINE can now produce IMAGINE Images (i.e., .img and .ige) larger than two gigabytes in size. Any image larger than 2GB is unusable on ERDAS IMAGINE V8.3 systems, and on any operating system that does not support large files. This is the only modification in ERDAS IMAGINE V8.4 that may render image data unusable.
Annotation Files	<p>The ERDAS IMAGINE V8.4 version of annotation now uses a two-byte character set internally so as to support the UNICODE font encoding scheme. The new character sets are only used for output on systems that support UNICODE (such as Windows NT).</p> <p>The format of the text data in annotation files has changed to support this. The new file format is only used when the data requires it. If only characters in the ASCII range are used, then the data is saved in the old (pre-ERDAS IMAGINE V8.4) format, thus keeping it fully compatible with earlier versions of ERDAS IMAGINE.</p> <p>If two-byte data is used, it is saved in the new format. If an older version of ERDAS IMAGINE opens one of these files, the text objects appear to be empty. Finally, if ERDAS IMAGINE V8.4 is used to display an annotation file containing two-byte text on a system that does not support it, the text objects appear as the text string "Unicode Text".</p>
Models	With the addition of new keywords, Graphical Model (.gmd) and Spatial Modeler (.sml) files created by the ERDAS IMAGINE V8.4 Graphical Modeler are not generally usable in ERDAS IMAGINE V8.3 systems.

Hardware Requirements

Minimum Requirements for ERDAS IMAGINE Version 8.4

System	Disk Space ^a	Swap Space	Memory ^b	Window System	Operating System
Compaq AlphaStation	575 MB	300 MB	96 MB (128 MB when using a 24-bit display)	OSF/Motif	Compaq UNIX Tru64 (4.0F)
HP 9000 family, series 700 and 800	600 MB	250 MB	64 MB (96 MB when using a 24-bit display)	X11/Motif	HP-UX 11.00
IBM RS/6000	650 MB	250 MB	96 MB (128 MB when using a 24-bit display)	AIX Windows	AIX 4.3.2
Intel Pentium	600 MB	120MB ^c	64 MB	Microsoft Windows	MS Windows NT 4.0 or 98
Silicon Graphics R4400 and up	600 MB	200 MB	64 MB (96 MB when using a 24-bit display)	X11/Motif	IRIX 6.5
Sun SPARCstation	550 MB	200 MB	64 MB (96 MB when using a 24-bit display)	Open Windows ver. 3.3	Solaris 2.6 and 2.7

a This is the hard disk space requirement for installation of all modules.

b When you are using a 24-bit display board you should have more memory—we recommend 96MB (128 for the Compaq AlphaStation and the IBM RS/6000). The first time you bring up a Viewer, the Viewer creates a backing store. A backing store allows the image in the Viewer to be refreshed quickly. However, with a 24-bit display ERDAS IMAGINE uses about 4 MB of memory for each backing store. This is why extra memory is required. If you do not have extra memory, ERDAS IMAGINE will run slower. With an 8-bit display, ERDAS IMAGINE uses only 1 MB of memory for each backing store.

c Swap Space can be set on NT. It increases automatically on 98.

NOTE: These requirements are subject to change. Please visit our web site at <http://www.erdas.com> for the latest specifications.

UNIX Installation/Configuration

Refer to the ERDAS IMAGINE V8.4 *Installation Guide* for detailed information.

General

Temporary Disk Space 1• Several processes in ERDAS IMAGINE create temporary files. Be sure to set the Temporary File Directory in the User Interface and Session category of the Preference Editor to a directory with sufficient disk space. The default directory, /tmp or C:\TEMP, often does not have enough space. The actual amount needed will depend on the sizes of the files you are using.

Run from Remote System 2• If you attempt to run ERDAS IMAGINE remotely and the architecture-specific filesets for ERDAS IMAGINE have not been installed for the architecture upon which the local X Server is running, certain X resources may be set incorrectly for ERDAS IMAGINE and the international fonts may not be available. You can correct this by installing the architecture-specific fileset for the Remote Services module for the architecture of the local X Server. Refer to the ERDAS IMAGINE Installation Guide for instructions.

Configuration 3• Because of limitations of the Configuration Database format, no configured device can have the same name as any device template. It is also important that devices are given unique names.

Libraries 4• If a host is configured through the Configuration Editor to have more than one CPU, errors may result during resampling or classification of files holding image layers that contain more than 200 raster data blocks or that contain raster data blocks that are greater than 4 KB. To work around this problem until it is corrected, either reconfigure the host to have only a single CPU or increase the Memory Map File Size Limit in the IMAGINE Image Files preference category to a value greater than the file size (assuming the file being processed is an .img file).

Print Queues 5• ERDAS IMAGINE V8.2 Users: The print queues created for ERDAS IMAGINE V8.2 are not compatible with ERDAS IMAGINE V8.3 and later. There have been significant changes to the delivery mechanism used within ERDAS IMAGINE which require new configuration information, so all printers must be reconfigured to work with ERDAS IMAGINE V8.3 and later.

More information about printer connection and configuration may be found in the on-line Session Manual.

UNIX ONLY

6• If you are migrating from ERDAS IMAGINE V8.3, you will need to recreate any print queues which were configured using the ERDAS IMAGINE Print Accelerator. This is done by using `lpadmin -x queue_name` as root where `queue_name` is the name of the system queue, not the ERDAS IMAGINE printer name, and then selecting "Create Print Queues" in the Configuration Editor.

- | | |
|--------------------------|---|
| Remote Licenses | 7• The successful installation of ERDAS IMAGINE requires that the person installing it be able to run a remote shell on the host which is specified as the license server. |
| <hr/> | |
| Large File Compatibility | 8• Every Operating System supported by ERDAS IMAGINE V8.4 has the ability to read and write files larger than 2 GB on a local file system, and every system other than Windows 98, can go past 4 GB. In many cases, it is possible to read and write files larger than 4 GB on a network drive: most UNIX machines can read and write large files on servers supporting NFS version 3. Windows machines can generally read NTFS drives that have been shared by a Windows NT system. |
| | For some platforms or file systems, a technical limit to the maximum file size is stated, when such a limit is known. Many other limitations, such as disks, servers, memory, or time may reduce the effective size of files you choose to produce. The following reflects ERDAS's experience in testing large file support in ERDAS IMAGINE: |
| AIX 4.3.2 | <ul style="list-style-type: none"> - Able to read and write files larger than 4 GB to a local JFS file system, with the following requirements: <ol style="list-style-type: none"> 1. The file system must be configured to support large files at the time it is created. Existing file systems cannot be converted. 2. The <code>fsize</code> parameter in <code>/etc/security/limits</code> limits the maximum file size a given user can create, and it defaults to 2097151 blocks (2.1 GB). This must be set to -1 (unlimited) or to some larger value for each user who needs to create large files. - Able to read and write large files larger than 4 GB to drives hosted by an NFS version 3 server |
| Compaq Tru64 UNIX 4.0F | <ul style="list-style-type: none"> - Able to read and write files larger than 4 GB to a local file system. The technical limit for the AdvFS file system is 16 TB minus 512 KB, and the technical limit for UFS is 128 GB. - Able to read and write files larger than 4 GB to drives hosted by an NFS version 3 server, up to a technical limit of 512 GB. |
| HP-UX 11.0 | <ul style="list-style-type: none"> - Able to read and write files larger than 4 GB to a local file system, up to a technical limit of 128 GB. - Able to read and write files larger than 4 GB to drives hosted by an NFS version 3 server. |
| IRIX 6.5 | <ul style="list-style-type: none"> - Able to read and write large files to a local UFS file system. |
| Solaris 2.6 and 7 | <ul style="list-style-type: none"> - Able to read and write files larger than 4 GB to a local UFS file system. - Able to read and write files larger than 4 GB to drives hosted by an NFS version 3 server. |

Windows 98

- Able to read and write files up to 4 GB to a local FAT32 file system.
- Generally able to read files from a remote NTFS file system, with some systems experiencing problems zooming in to full resolution. Other remote disks are treated as if they were FAT file systems, and are subject to the 2 GB limit imposed by FAT.

Windows NT

- Able to read and write larger than 4 GB to a local NTFS file system, up to a technical limit of 264 bytes.
- Able to read files larger than 4 GB from a remote NTFS file system. Other remote disks are treated as if they were FAT file systems, and are subject to the 2 GB limit imposed by FAT.

Compaq AlphaStation

- 9• In order to make the best use of swap space when running ERDAS IMAGINE, it is recommended that Compaq AlphaStations be configured to use deferred swap-space mode. By default, when Compaq Tru64 UNIX is installed, it is configured to use immediate swap-space mode. For information on the swap space modes under Compaq Tru64 UNIX, type the following from a UNIX shell:
rosenberg961009

```
# man swapon
```

In order to change a system from immediate mode to deferred mode, you must log in as root, and rename the file /sbin/swapdefault, and then reboot:

```
# cd /sbin  
# mv swapdefault swapdefault.bak  
# reboot
```

Prerequisites

- 10• Before installing ERDAS IMAGINE, several optional subsets must be installed in the system. ERDAS IMAGINE will not install or run without the following:
- Open3D
 - Fortran Run-Time Library
 - Additional X Applications subset

Open3D

- 11• Open3D 4.93 (or greater) is required for ERDAS IMAGINE V8.4 and later. Open3D is distributed by Compaq as part of its Software Product Library. Among other things, Open3D contains Compaq's OpenGL implementation, which is required to run the ImageDrape and IMAGINE VirtualGIS applications within ERDAS IMAGINE.

Open 3D 4.96 can be installed by mounting the CD entitled "Compaq UNIX Alpha Software Product Library, Disc 1". This CD should be dated October 1999, or later. To mount the CD and load the subset, use the following commands:

```
# mount -r <device file name> <mount-point>  
# setld -l <mount-point>/o3d496/kit
```

At the menu prompt, select for installation:

- The Base Open3D module
- OpenGL
- Stereo (if you will be using stereo with IMAGINE VirtualGIS or OrthoMax[®])
- And the driver support for your specific graphics card (if applicable).



If you have a graphics card other than the above, you will not be able to run ImageDrape or IMAGINE VirtualGIS. Whether or not you have one of the supported graphics cards for OpenGL, you must install Open3D to run ERDAS IMAGINE.

- Fortran Run-Time Library 12• ERDAS IMAGINE V8.4 and later require the installation of Compaq's Fortran Run-Time Library. This is distributed by Compaq with the operating system. It can be found on the CD marked "Compaq Tru64 UNIX V4.0F Associated Products, Volume 1". Load this CD, and execute the following commands:
- ```
mount -r <device file name> <mount-point>
setld -l <mount-point>/DEC_Fortran_RTL/kit
```
- Additional X Applications subset      13• In order to properly install the fonts needed by ERDAS IMAGINE, it is necessary to install the optional system subset entitled "Additional X Applications". This may have already been installed when the operating system was loaded, or it can be installed as an additional subset after the operating system has been loaded. To see if it is already loaded, issue the following command:
- ```
# setld -i | grep OSFXMIT | grep installed
```
- If the result is empty, it is not installed. To install it, load the operating system CD entitled "Compaq Tru64 UNIX V4.0F Operating Systems, Volume 1" and issue the following commands:
- ```
mount -r <device file name> <mount-point>
setld -l <mount-point>/BASE OSFXMIT440
```
- 14• When installing ERDAS IMAGINE on an nfs mounted disk, the installation script may report that there is insufficient disk space, due to a negative number of GB available. If you are certain that there is ample space, continue the installation by answering "Y" to the "Do you wish to proceed..." query.
- 15• Compaq UNIX limits the number of memory mapped files which can be opened on the system at one time. The default limit is too small for many ERDAS IMAGINE applications and must be changed.
- To determine the current setting:
- ```
# /sbin/sysconfigdb -l vm
```
- Look for the vm-mapentries parameter. If it is not set, or is set to a value smaller than 1,000,000, follow the instructions below.
- To correct the problem: (as root)

1. Create a file called /tmp/vm.config with the following contents:

vm:

```
vm-mapentries=1000000
```

2. If the vm subsystem entry did not exist at all (as indicated by an error or warning message from sysconfigdb -l), issue the command:

```
# /sbin/sysconfigdb -f /tmp/vm.config -a vm
```

If the vm subsystem entry did already exist, issue the command:

```
# /sbin/sysconfigdb -f /tmp/vm.config
```

3. Reboot the system.

HP 9000

- 16• When configuring the system to allow ERDAS IMAGINE to view SDE layers, the SDE instance entry (default: ersi_sde) must be placed on the NIS server if NIS is being used; otherwise, this entry can be placed in the services file on the local machine.

IBM RS/6000

- 17• ERDAS IMAGINE requires that the Asynchronous I/O device be set to "available". This can be done through the SMIT interface for Devices or with the command:

```
chdev -l aio0 -P -a autoconfig='available'
```

The installation script will attempt to turn it on, but since the system must be rebooted to have the change take effect, the installation itself will fail. To make the installation run smoother, it is recommended that the user turn on this feature before attempting to install ERDAS IMAGINE.

Portions of the ERDAS IMAGINE installation must be run as root under AIX. Root permission is required to install operating system packages which are not normally part of the default installation of AIX. If you do not want to perform the entire ERDAS IMAGINE installation as root, you can follow these steps:

1. Install ERDAS IMAGINE as a non-root user. This will uncompress all of the archive files for ERDAS IMAGINE, but the installation will not complete successfully.

2. Run the following command as root:

```
$IMAGINE_HOME/install/setup_rs6000
```

This will install the operating system packages required to allow ERDAS IMAGINE to run.

3. Run the command to enter codewords:

```
$IMAGINE_HOME/install/enter_codewds
```

This cannot be done until step 2 is completed and must be done before the final configuration of ERDAS IMAGINE will be successful.

4. Run the following command as a non-root user:

```
$IMAGINE_HOME/install/setup_system
```

This will complete the configuration of ERDAS IMAGINE.

- 18• The font conversion utility (run during the installation of ERDAS IMAGINE) can be found in the AIX package X11.fnt.util. If this package is not installed, fonts can not be configured. When fonts are not configured, ERDAS IMAGINE will generate a warning message when it is started, but it will still work correctly. The fonts will still display on the canvas of the Map Composer and the ERDAS IMAGINE Viewer.
- 19• When configuring a serial port for use with a digitizing tablet, the "runmodes" attribute for the tty needs to include the value "clocal". If this value is not in the attribute list by default, it needs to be added.

To add this value, use "smit tty" -> "Change / Show Characteristics of a TTY". Select your tty from the list, then edit the "STTY attributes for RUN time" field to add the value "clocal" (without the quotes).

- 20• In order to utilize ERDAS IMAGINE tape functionality you must set the blocksize of your tape device to zero. IBM defines zero blocksize as variable. The parameters in smit should be similar to the following:

```
Change / Show Characteristics of a Tape Drive
Type or select values in entry fields. Press Enter AFTER
making all desired changes.
```

	[Entry Fields]	
Tape Drive	rmt0	
Tape Drive type	4mm4gb	
Tape Drive interface	scsi	
Description	4.0 GB 4mm Tape	
Drive Status	Available	
Location	04-B0-00-2,0	
Parent adapter	scsi0	
Connection address	2,0	
BLOCK size (0=variable length)	[0]	+#
Use DEVICE BUFFERS during writes	yes	+
Use data COMPRESSION	yes	+

```
F1=Help      F2=Refresh   F3=Cancel    F4=List
F5=Reset     F6=Command   F7=Edit      F8=Image
F9=Shell     F10=Exit     Enter=Do
```

- 21• The font conversion utility (run during the installation of ERDAS IMAGINE) can be found in the AIX package X11.fnt.util. If this package is not installed, fonts can not be configured. When fonts are not configured, ERDAS IMAGINE will generate a warning message when it is started, but it will still work correctly. The fonts will still display on the canvas of the Map Composer and the ERDAS IMAGINE Viewer.

Silicon Graphics R4400
and up

- 22• Virtual swap space should not be used when running ERDAS IMAGINE. To ensure virtual swap space is not being used, issue the following command as root:

`chkconfig vswap off`
- 23• and then reboot the system. You can check this system parameter using the `chkconfig` command without arguments. ERDAS IMAGINE requires the IRIX SystemV networking subpackage `oe.sw.svr4.net` in order to install under IRIX 6.5. This may be installed in the following manner:
 1. Log in as root.
 2. Insert the IRIX 6.5 CDROM (Part 1 of 2)
 3. Run `/usr/sbin/inst`
 4. Type `1`
 5. Choose `/CDROM/dist`
 6. Allow it to read the installation history, etc.
 7. Type `install oe.sw.svr4net`
 8. Enter `go`. It will install the software.
 9. When the install completes, type `quit` to exit `inst`.
- 24• Command windows may not line up with the Icon Panel under the SGI Window manager 4DWM. This is only a minor cosmetic problem with no negative consequences.

Microsoft Windows

- 25• While running ERDAS IMAGINE on a Windows 2000 machine, opening image files which are in some Samba drives and do not contain map info crashes the application due to file open error. A workaround is to copy those files either to the Windows 2000 machine or to some other Windows drives.
- 26• ERDAS IMAGINE installation does not force the dependency rules among the modules. For instance, you can select/install IMAGINE Advantage™ without selecting/installing IMAGINE Essentials™ even though IMAGINE Advantage™ is dependent on IMAGINE Essentials. For your convenience, the first four modules in the modules list, IMAGINE Essentials, IMAGINE Advantage, IMAGINE Professional™, and IMAGINE Radar Interpreter™, are selected as default. Before you deselect some of them, you should make sure that either you do not need them or they have already been installed on your machine. For detailed information, please refer to the ERDAS IMAGINE Installation Guide.

 ERDAS IMAGINE

Batch

- 27• If you create a variable that refers to itself either directly or indirectly, you will get an "Expanding" error. This just means that the Batch system has detected that the variable is recursively defined and will return an empty value.
- 28• When Batching the reproject command, care should be taken to make sure that the projection name does not contain slashes. If it does, then it will be mistaken for a filename, which will cause the Batch system to create the wrong variables.
- 29• When the Batch processor runs, it will only delete files whose names are given by a variable which has one of the delete options checked. If a filename is hardcoded in one of the commands, Batch will not alter the file in any way.
- 30• Do not run the VPF importer in Batch mode. Run it directly.

UNIX ONLY

- 31• The "Image Interpreter->Spectral Enhancement->Indices..." operation will not produce results when placed into Batch for later operation.
- 32• When Modify is used from the Batch queue, the job is removed from the Batch queue and placed into a new Batch Wizard dialog. If the Cancel button is pressed on this dialog the job files will be lost. To avoid this, press the OK button. This will return the Batch job to the queue in its original state.
- 33• The Cancel button on the Batch Progress Meter attempts to cancel the current running application in a passive manner. That is, it requests that the application stop. If the application does not check for these requests, then it will not be forced to stop.
- 34• Some applications run from Batch may terminate abnormally if some of the output files exist at the time the Batch job is run. This could happen if the "Delete before Processing" flag has been unset for an output variable, or if you have two input file names with the same base name (e.g., "newyork.img" and "newyork.tif"). Consult the Batch section in the ERDAS IMAGINE Tour Guide for ways to handle non-unique file name bases.
- 35• When run in "Batch Now" mode, the Periodic Noise Removal function does not update the progress meter, but it does produce correct output.
- 36• The applications Surface, WarpTool, and Mosaic use temporary files which are deleted when the application completes. This makes these applications inappropriate for automating in Batch. The reproject function of the WarpTool can be run stand alone from the Data Prep menus, so this can be automated.
- 37• When opening a saved Batch list file in the "Select Files to Process" panel in the Batch Wizard, the "Next" button is grayed out. Select "Back" in the Edit Commands window, then select "Next" to return to the Select Files window. At that point, the "Next" button is available.

WINDOWS NT ONLY

- 38• The Task Scheduler is a new version of the Scheduler service which is shipped with Windows 2000. In addition, Microsoft quietly includes this new service with a variety of other products, including Office 2000 and Internet Explorer 5.0. There are two ways to determine if Task Scheduler is installed on your system. If the Explorer shows a folder called "Scheduled Tasks" under "My Computer", then Task Scheduler is installed. If there is an entry called "Task Scheduler" under the "Services" control panel, then Task Scheduler is installed.

If Task Scheduler is installed, then there will be two differences from the Batch Tour Guide:

Starting the Task Scheduler:

When starting the Task Scheduler service it is only necessary to use the "Start" button in the "Services" control panel. NOTE: The Services control panel is slightly changed in Windows 2000. Make sure that you read the help for the services control panel when using it for the first time.

Submitting a Task to Run Later:

If Task Scheduler is installed, there is an additional panel at the end of the Batch Wizard. This panel collects username and password information, which is required by the Task Scheduler. Because of the additional panel, the "Finish" button will be disabled and the "Next" button will be enabled, forcing you to advance to the last panel to enter the information before the "Finish" button is enabled. Once the information has been entered, it will be remembered for the session and does not have to be entered again. The information is not saved, so when ERDAS IMAGINE is exited, it will be forgotten and will have to be reentered during the next session. This was done as a security step, since saving the information in some file might be a security problem.

Customize

SGI ONLY

- 39• On the SGI Impact, if the resolution of the monitor is set to a low setting to work with stereo-in-a-window, the machine reboots when stereo-in-a-window is turned off. If this occurs, set the resolution to 1280x1024_72.

UNIX ONLY

- 40• In emlview, windows will grow if they are displayed at the time you save the EML file. You can undisplay them first.

UNIX ONLY

- 41• The emlview utility is still incomplete, and can lose certain types of information (such as licensed module requirements). Consequently, the Save function has been disabled. You should Save As another file and make sure that nothing critical has been lost before proceeding.

Fourier

- 42• The preview chip in the Fourier Editor File Chooser will not show a preview of the FFT image, showing a black area instead. This will not affect the ability to select the file or operate on it in the Fourier Editor.
- 43• The Save As command in the Fourier Transform Editor uses the Default Data Directory instead of the Default Output Directory as the default output file location. If this is not the desired output directory, use any of the several mechanisms in the file chooser to select a different directory.
- 44• The Image Interpreter->Fourier Analysis->Periodic Noise Removal function may leave files in Temporary File Directory (the directory named in the preferences). These files will be of the form fftautoxxxxx.rrd and efftxxxxxx.rrd. When the process is finished these file may be safely removed.

-
- Image Catalog
- 45• The Graphical Query window redraws itself an extra time during startup because it resizes the window to fit the world map.
- WINDOWS ONLY
- 46• The Image Catalog cannot use a locally connected tape device.
- WINDOWS ONLY
- 47• The Image Catalog uses the value of the environment variable "LOGNAME" for the name of the current user. This environment variable is (normally) not set on Windows, so all of the images catalogued or archived on Windows have the name "Unknown" for the user. The LOGNAME environment variable can be set under the system control panel to give the correct username.
 - 48• If you click on the Catalog button on the ERDAS IMAGINE Icon Panel and nothing happens, and the Session Log does not show any error messages, an Image Catalog window is probably hidden under other windows or iconified. Lower or iconify the windows on your desktop until you find the Image Catalog.
 - 49• The Image Catalog cannot store filenames longer than 30 characters, or path names longer than 60 characters.
-
- Image Drape
- ALPHA ONLY
- 50• In ImageDrape, the scene may become darker after an exaggeration is applied.
-
- Import/Export
- UNIX ONLY
- 51• On UNIX, importing an E00 file (Arc Interchange) created on a Windows platform may fail because of the ACSII file format difference between Windows and UNIX. Convert the format to UNIX before importing (on Solaris, you can run "dos2unix -ascii input output").
- WINDOWS ONLY
- 52• Importing DEM or DTED data directly to a TIFF file that is written as strips instead of tiled may cause available page space to be exhausted. Be sure to either have your TIFF preferences set to produce tiled output or import to IMG format and then export or "Save As" TIFF.
- WINDOWS ONLY
- 53• If you have a number of network drives mapped, then the Import/Export dialog may take a long time to display. Minimize the number of mapped network drives to avoid this.
- SGI TAPE DRIVES ONLY
- 54• Some tape formats, such as AVHRR, cannot be imported successfully from tape drives attached to SGI workstations. ERDAS recommends using remote tape drives / tapeservers on SGI computers if you experience problems.
 - 55• The USGS DEM importer may not write out the correct projection information to the output file in some cases. It is recommended that the Image Information tool be used after a USGS DEM import to verify the projection, spheroid, and datum information, and to correct any incorrect parameters.
 - 56• The USGS DEM Exporter does not correctly output a 1 degree cell format.
 - 57• For new importers, such as Landsat 7 or Color DOQ, there is no option to preview or subset.
 - 58• After previewing a GeoSpot image, double check the band settings under Import Options to make sure that they are correct.

HP ONLY

- 59• Use File Media to import IRS-1C data from CD.
- 60• The TIFF exporter will not perform contrast adjustment on data that is not 8 bit.

SOLARIS 7 ONLY

- 61• The recommended device name for tape imports from a Solaris 7 server is /dev/rmt/Xb, where X is the number of the drive. If this does not work, try Xlb, Xmb, or Xhb.
- 62• Images on tapes with incomplete band sets may not preview correctly.
- 63• Importing DXF to annotation does not support special AUTOCAD characters (such as "%d" for the degree symbol) in strings. The string is imported as if the special characters were literal.

WINDOWS ONLY

- 64• The GRID importer does not read statistics. Use Image Info to recompute statistics if necessary.
- 65• Imports in Batch may compute pyramid layers even when you have not requested them. You can adjust this using the preferences in "Image Files (General)".
- 66• Generic binary BSQ cannot be automatically exported to multiple files. You must run the Export function once for each band, specifying a single band in Export Options... each time.
- 67• If the Viewer's "Display Card Depth" preference is set to a value that cannot be supported by the display card, the Viewer will not start, and importer previews may crash; "default" is a safer value to use for this preference.
- 68• When previewing some imports, the pixel size under Image Information will not be reported correctly. To determine the correct pixel size, perform the full import.
- 69• If you have added a color table to a single band thematic image, the TIFF exporter is not going to output the color table with the TIFF image. If you wish the color table to be output, modify the layer type to Thematic in ImageInfo and then perform the export or simply load the image in the Viewer and select Save/Top Layer As..., specifying a TIFF output filename.

ALPHA, IBM, AND HP ONLY

- 70• You may have difficulty importing images using CD ROM media in Batch. You can improve your chances for success by (1) using "Utilities | Mount/Unmount CDROM..." to ensure the CD is mounted during the Batch run, and (2) using File Media for the import when possible.

IBM, ALPHA AND HP ONLY

- 71• Some importers fail to automatically unmount CD ROMs. Use Utilities | Mount/Unmount CDROM... to unmount the CD ROM before the drive is used again.
- 72• The VPF importer sometimes fails to build the imported coverage. The workaround is to run the BUILD utility on the coverage yourself.

UNIX ONLY

- 73• The pop-up list of directories at the bottom of the filename frame part may shrink after repeated use in some dialogs. If the part shrinks to an unusable size, the dialog must be closed and reopened.
- 74• After importing a SPOT CDROM, you may not be able to eject the CDROM until you click OK on the import progress meter.

ALPHA AND WINDOWS ONLY

- 75• The 7.5 ANT importer is not supported for ERDAS IMAGINE V8.4 under Compaq Tru64 UNIX, WindowsNT, or Windows 98 at this time.

Knowledge Engineer

- 76• Using the Cut function on a node in the Knowledge Engineer by itself will not trigger the "Prompt For Save on Close" option. If the only operation the user performs is to cut nodes from the knowledge tree, then an explicit save should be done before closing the file.
- 77• Cut, Copy, and Paste between Knowledge Engineer applications is not supported. These functions only work within a single Knowledge Engineer window.
- 78• Confidence values in the Knowledge Engineer should always be in the range of 0.0 to 1.0. The interface does not always strictly enforce this.
- 79• The Rule Props dialog has an option for specifying an absolute confidence for the Rule, rather than calculating the confidence from the individual nodes. This option is overridden by the calculated value if none of the Conditions are based on intermediary Hypotheses.

If you want to specify a confidence you must therefore feed you Rule into an intermediary hypothesis and specify the confidence for a Rule based on that intermediate hypothesis being true.

- 80• When using the Feedback Cursor selecting Hypotheses, Rules or Variables and deleting them may cause the Knowledge Engineer to exit with an unknown error.

If using the Feedback Cursor you should not attempt to edit the knowledge base at all. Close the Feedback Cursor before attempting to make any edits.

- 81• The documentation states that in the event that two or more classes (hypotheses) have the same confidence at a particular location, they are evaluated in the same order they appear in the decision tree (i.e. the most likely class is the first). However this is not always the case.

You should always try to ensure that your hypotheses are evaluated with differing confidence values. If the confidence values are the same, then any decision made by the Expert Classifier on which has the higher confidence is, in effect, arbitrary. Hence, you should alter the confidence values on the conditions to minimize the occurrence of hypotheses with the same confidence values.

Map Composer

- 82• When printing map compositions, the MapMaker program currently sorts the layers in any frame so that the vector and annotation layers are above the raster layers.

If the prerasterize option is available, this can be used to get the correct sequence of layers.

- 83• When a map is printed with orientation change (i.e., rotated), symbols in Symbol Fill and symbols representing point coverages in the map are usually printed with no rotation.

The workaround is to choose the option "Force No Rotation" in the Print Map Composition dialog.

- 84• Map compositions saved in a version of ERDAS IMAGINE prior to release 8.3 that contain a map frame(s) holding a GRID layer(s) can be accessed in ERDAS IMAGINE 8.4 by updating the GRID layer name(s) in the map composition so that they are consistent with the ERDAS IMAGINE 8.4 GRID DLL layer naming conventions.

For access of GRID layers through GRID Stack files, the layer node part of the layer name should be changed to (:Layer_<n>), where n represents the number of accessible GRID layers up to and including the current layer reference in the .stk file. (Under normal circumstances, this corresponds to the line of the .stk file that refers to the layer.)

For access to GRID layers directly through a GRID coverage, the layer node part of the layer name should always be (:Layer_1).

- 85• The background color of a pseudocolor image may print out white, even though the background looks black in the Map Composer. This happens with DRG TIFFs, or any thematic image where Opacity is unspecified. To make these images print correctly:

- (1) for TIFFs, make sure the TIFF "Edits Allowed" preference is enabled,
- (2) make sure the image is writable, and
- (3) use the "Raster | Pixel Transparency..." in the Viewer and turn off the "Transparent Background".

Another alternative is to import the TIFF.

UNIX ONLY

- 86• If you attempt to print to a system queue that has been configured in ERDAS IMAGINE but not created under the OS, the printmanager fails without an error dialog. There will be messages in the Session Log.
- 87• If a map composition frame is larger than the raster data area (this often occurs when multiple layers are stacked in the Viewer), the surrounding area is printed transparent, though sometimes it displays black in the Viewer.
- 88• The MapMaker program does not correctly handle the backslashes used in filenames on the WindowsNT and Windows 9x systems. In map compositions, the Map Composer has already converted the backslashes to forward slashes; thus, the MapMaker program has no problems. If you use the Edit Map Paths tool to change the path to any map components, be sure to use forward slashes rather than backslashes.

WINDOWS ONLY

- 89• If you select an annotation object and then click on a toolbox button, pressing arrow keys does not move the object even though it is still selected. To let the arrow keys work, you need to reselect the object.

MapSheet Tool

- 90• The MapSeries tool always sets the Transparent Background flag for raster layers to FALSE in the map compositions that it creates. If you wish the background values to be transparent, use the Map Composer to edit the map(s) that the MapSeries tool creates, edit the map frame and turn on Transparent Background for the raster layer(s) by using the Arrange Layers dialog.

MeasureTool	<p>91• When applying a vertical reference DEM file to automatic Z value update in the Point Measurement Tool, the x and y coordinates of reference points are truncated to integers. Therefore, if the pixel size of the DEM file is small compared to the units of horizontal reference in block project (e.g., degrees, radians, and kilometers), the elevation values in the Z Reference column of the CellArray may not be properly updated.</p> <p>92• When selecting different horizontal references, such as vector or annotation and image layers, the Viewer in the Point Measurement Tool dialog does not clear the viewing space completely. Resizing the Point Measurement Tool dialog corrects the problem.</p> <p>93• While external ground control coordinate (GCC) and ASCII files for horizontal reference X, Y, and/or Z coordinates can be imported into the Point Measurement Tool dialog, similar files for image coordinates cannot be directly imported. GCC and ASCII files for image coordinates can be copied and pasted from ERDAS IMAGINE HfaView (for GCC files) or Microsoft WordPad (for ASCII files).</p> <p>94• The default color for the Viewer link box in IMAGINE OrthoBASE™ is always white.</p> <p>To change the link box color, right-click in either the Over View or the Main View to access the pop-up menu. Then, select the Link Box Color option. In the Link Box Color dialog, use the pulldown list to select a different color, then click OK in the Link Box Color dialog.</p>
Mosaic	<p>95• When displaying more than one calibrated image in the Viewer with the Orient to Map System turned off in the Raster Options tab, each subsequent image that is displayed may display very slowly even if it contains pyramid layers. This is specifically evident when displaying calibrated imagery from the Mosaic tool into the ERDAS IMAGINE Viewer when viewing the cutlines.</p> <p>96• Cutlines in the Viewer may not display correctly at first. If this occurs, then use the box zoom tool to refresh the Viewer window.</p> <p>97• When using AOI tools to digitize a cutline, make sure that the starting and ending points of the manual cutline are located outside of the intersection polygon.</p>
On-line Help	<p>98• Links to the printed documentation, such as the ERDAS Field Guide™ or the ERDAS IMAGINE Tour Guides, require Acrobat Reader, a free download from Adobe, to be installed.</p> <p>Under UNIX, make sure the Acrobat executable (acroread) exists in your path before starting ERDAS IMAGINE. Acrobat Reader version 4 is recommended.</p>
<u>UNIX ONLY</u>	<p>99• The "Find" feature may not display any words or topics, even though it tries to build an index every time. Run ERDAS IMAGINE as root, choose "Help Imagine On-line Documentation", then "Find", and let the index build. From then on, "Find" will work for all users.</p>
PixelToTable	<p>100• If pixeltotable is used in a command script all of the arguments must be specified. An easy way to capture a complete command line is to run the "Convert Pixels to ASCII..." application and then copy the command line from the session log.</p>

Printing

UNIX ONLY

- 101• The Printmanager does not always respond to the Cancel button on its status dialog. It can be stopped using the Active Process List dialog from the Session Manager.

Session

UNIX ONLY

- 102• If a program fails to start every time and "XIO: fatal IO error 9 (Bad file number) on X server" appears in the Session Log, there is probably a conflict between a directory name and an ERDAS IMAGINE program name. Try starting ERDAS IMAGINE from an empty directory.
- 103• If you select multiple processes in the "Active Process List" and try to kill them at once, they may not all be killed. You may select them individually and use the "Kill" button.
- 104• It may be possible, under some abnormal circumstances, for the Job Progress Meter for an application to fail to be dismissed. This does not have any negative effect, and the dialog will be removed when ERDAS IMAGINE is exited.

WINDOWS ONLY

- 105• When doing File | Save As, ERDAS IMAGINE will force the new file name to be in lower case letters even though you enter the file name with upper case letters in the Save As dialog. You might use Windows Explorer to change the file name after the file is saved.

SGL ONLY

- 106• Some terminal windows may disappear when you exit ERDAS IMAGINE.

Spatial Modeler

- 107• An annotation file should have projection type and units specified in order to be used as an input in Spatial Modeler.
- 108• The "Log Message Level" preference under User Interface and Session must be set to "verbose" in order to output matrices and tables from Spatial Modeler to the Session Log. If the preference is set to "terse", no output will appear.
- 109• In Spatial Modeler, the CELLAREA function does not return proper results unless a function is applied to at least one raster input in the same model. Applying a global function such as GLOBAL MAX to a raster input is sufficient to ensure that CELLAREA works properly.
- 110• When using an AOI from a Viewer in an Image Interpreter function, make sure the AOI is selected in the Viewer before choosing the Viewer as AOI source in the Image Interpreter function.

TableToPixel

- 111• The "Convert ASCII to Pixels..." application (TableToPixel) is designed to read from files created by the "Convert Pixels to ASCII..." application (PixelToTable). Using other text files as input may hang the application.
- 112• TableToPixel uses the datatype to determine the layertype with the result that all layers less than "unsigned 16-bit" are THEMATIC. This has the effect of making 3-band, unsigned 8-bit data import into an image file as three THEMATIC layers. The Image Information Tool can be used to change the layertype to "continuous" if desired.

- 113• When running `tabletopixel` from the command line, the order of the arguments is important. Run the "Convert ASCII to Pixels.." utility and look at the Session Log for an example of the correct command line argument order. In addition, the `-clobber 0` option does not work, which means that the output file must be a new file.

Utilities

WINDOWS ONLY

- 114• The Edit Control on Windows limits many operations on text with more than 32676 characters. Since the ERDAS IMAGINE Text editor is based on this, it cannot do search/replace operations on documents that are larger than 32767 characters. Use another editor such as Wordpad to deal with these large files.
- 115• After recoding a thematic image in the Viewer, it is necessary to change the layer type to `athematic` prior to recomputing statistics so that the bin function will be reconstructed. Once statistics are recomputed, the layer type may be changed back to `thematic`.

UNIX ONLY

- 116• The text editor cannot print to print queues which start with a numeric digit. Use a print queue that starts with a letter.
- 117• When using the inquire box to define an extent for an operation, make sure that the application that is going to use the inquire box coordinates is started before the inquire box is invoked.

Vector

WINDOWS ONLY

- 118• When converting a coverage to an image file, you will see warnings of not being able to read the statistics of the intermediate grid file. The workaround is to compute the statistics after the conversion is finished.

SGI ONLY

- 119• Coverages cannot be mosaicked.
- 120• The "Copy Vector Layer" utility only allows you to copy layers of the same type (i.e., between coverages, Shapefiles, etc.,) but not between a coverage and a Shapefile, or vice versa.

WINDOWS ONLY

- 121• When rendering polygons of a vector layer with patterned symbology in a Viewer, sometimes non-existing shapes are drawn, and patterns look disrupted. Use solid fill symbology instead.
- 122• ERDAS IMAGINE has different definitions of the "Modified Airy" spheroid from ESRI's ArcInfo. The equivalent spheroid is "Airy Modified 1849" in ERDAS IMAGINE. However, you can replace the parameters of "Modified Airy" with those of "Airy Modified 1849" in `$IMAGINE_HOME/etc/spheroids.tab` to establish the equivalency between ArcInfo and ERDAS IMAGINE on this spheroid.

Viewer

UNIX ONLY

- 123• If the absolute path of an image file in the file system exceeds 256 characters, and there is difficulty accessing the imagery file in the Viewer, create a file system link (either hard or symbolic) to the file or the directory containing the file so that the absolute path of the file through the link is less than 131 characters. This should allow error-free Viewer access.

- 124• Be sure to eliminate any extraneous characters that appear in the output file name for "Save Top Layer As" on a vector layer. Extraneous parentheses can crash the Viewer.

SOLARIS ONLY

- 125• Avoid adding an attribute column of type Complex using the Raster Attribute Editor. Adding a complex column may cause an abnormal termination of the application.

You may instead use the Spatial Modeler to add an attribute of type Complex. Since Model Maker does not support type Complex, the SML script model must be edited to specify Complex type. The column data may then be edited using Raster Attribute Editor.

UNIX ONLY

- 126• If you use the "Toggle Borders" feature of the Viewer, toolbars and other windows attached to the Viewer may disappear. Some windows, such as the raster Breakpoint Editor, cannot be brought back. The workaround is to close these windows before toggling borders, or to disable the Dialog Follows Parent preference under User Interface and Session.

WINDOWS ONLY

- 127• The Viewer may abnormally terminate when using the Virtual Roaming option on the STB Velocity 128 graphics card under Windows 9x/NT. If this occurs then turn the Virtual Roaming feature off under the Viewer View menu.

SGL ONLY

- 128• ERDAS IMAGINE applications may abnormally terminate if a file is accessed over the network that is larger than 2 GB.

WINDOWS ONLY

- 129• Creating an image file that exceeds 2 GB in size to a remote NTFS file system is likely to result in write failures. This type of operation should be performed to a local disk.

IBM ONLY

- 130• IBM systems do not support external memory files (Preference Editor->Memory) on Solaris drives over a network. Since the purpose of the external memory file is to improve performance and act as swap space, it is recommended that these files always be created on a local drive.
- 131• It may be necessary to use the Image Info tool to compute statistics ignoring the null cell value for ER Mapper files using the IEEE 4 byte real data format before they will display correctly.
- 132• The ERDAS IMAGINE Viewer will allow the user to open vector layers with very long symbology strings; however, if the symbology string is modified within ERDAS IMAGINE, it will be truncated to 256 characters.

IBM ONLY

- 133• When configuring a serial port for use with a digitizing tablet, the "runmodes" attribute for the tty needs to include the value "clocal". If this value is not in the attribute list by default, it needs to be added.

To add this value, use "smit tty" -> "Change / Show Characteristics of a TTY". Select your tty from the list, then edit the "STTY attributes for RUN time" field to add the value "clocal" (without the quotes).

- 134• When running Solaris 2.x with dual monitors, menu colors can be displayed incorrectly.

SOLARIS ONLY

- 135• When using the Virtual Roam option with a vector layer displayed in the Viewer, the vectors may not display correctly as the layer is moved. If this occurs press the default zoom button on the IMAGINE Viewer toolbar.

- 136• You cannot create files whose names contain spaces. However, selecting files with embedded spaces does work.
 - 137• When displaying imagery using the Viewer on an ATI RAGE PRO graphics card, the system may abnormally terminate due to a problem with the graphics card display driver. This typically occurs if the display is set to 24-bit color. If this occurs, change the display to either 16- or 32-bit color.
 - 138• When you overlay a Surface Profile with another file (true color, pseudo, or grayscale), if the 2nd file is in a different projection than the elevation file, it is not reprojected and will display incorrectly.
 - 139• If the Tablet to GCP editor dialog is closed after it has been displayed from the Geometric Correction tool, it cannot be redisplayed. If you close the dialog, restart the Geometric Correction tool to regain access to the dialog.
 - 140• If you experience problems displaying images and/or vector layers with different projections in the Viewer, make sure the projection information in both layers has been completely specified, including the datum.
 - 141• Region growing within Vector, AOI, and Annotation layers in the IMAGINE Viewer will not work correctly if the image is in a different projection than the layer.
 - 142• When editing Polygon Shapefiles within the Viewer, avoid reshaping polygons with islands or multi-part polygons. If either of these types are modified using the reshape option, the islands or other members of the multi-part polygon will be removed from the polygon.
 - 143• When two Shapefile layers are displayed in a Viewer, selecting a feature in the bottom layer and then selecting one in the top layer will cause the unselected features of the top layer not to be rendered. Refreshing the display will result in correct rendering (e.g., hit the Apply button on the Vector Property dialog).
 - 144• Growing a large area using the region growing tools with a vector layer within the Viewer may be very slow if the Snap Arcs option is enabled. If this occurs, disable the Snap Arcs option in the Vector Options dialog, available under the Vector menu in the Viewer.
- SOLARIS ONLY
- 145• The Compose key on Sun terminals does not always work properly. If you experience problems, try Compose, Space, and then the two characters you want to compose.
 - 146• In the Viewer, Raster | Recode does not recode a row to a value greater than the current maximum value in the file.
 - 147• When creating a new category using the Line, Fill, Text, Arrow or Symbol Style Choosers, or the Projection Chooser, and entering the base name for the category, make sure that you use a unique name. If you enter the name of an existing file, the data in the existing file will be overwritten.
- WINDOWS ONLY
- 148• By default, the imagery in the Viewer will not automatically scroll as the user drags the scroll bar. If this is not the desired effect, then enable the Virtual Roam feature under the View menu in the Viewer menu bar.

- 149• When using the Link Cursor option from the Surface profile tool, the profile line in the Viewer may be erased by the inquire cursor. If this occurs, refresh the Viewer window.
- 150• The Contrast-Breakpoint editor may show slightly different values than the inquire cursor since the values displayed there are interpreted from the breakpoints. The values displayed in the inquire cursor are read directly from the current lookup table.
- 151• In the Viewer, when you select File | Save | Top Layer As of a read-only raster layer, you must redisplay the new layer in the Viewer for it to recognize that the layer is writable.
- 152• When using an ASCII file for reference ground control points, the projection specified does not get properly transferred to the model solution. To work around this problem, click Cancel when prompted for a projection immediately after importing the ASCII points. From the GCP Tool, select Edit | Reference Map Projection, and set the map projection information. Then, click on Yes in the Reference Point Reprojection Warning box. After that, you will be able to solve the model.
- 153• The ImageDrape application will only startup on the same screen as ERDAS IMAGINE on a dual-headed system.
- 154• Shapefiles do not support specializations of various datums such as NAD27 or NAD83. The HARN datum will appear as NAD83.
- 155• When geo-referenced raster data are reprojected on-the-fly to a Viewer in which there already are data displayed with Geographic projection, a shift may occur if the map extent in the Viewer is really large (such as 30 degrees across in longitude). This shift will diminish if a smaller Reprojection RMS Error Tolerance value, such as 0.01, is set in Raster Processing category in the IMAGINE Preference. The default setting is 0.1, which works for the majority of map reprojections.

WINDOWS 9x ONLY

- 156• Under Windows 9x, you must not exclude the Viewer application from the mouse driver if you want the wheel to scroll the Viewer.

WINDOWS ONLY

- 157• When certain dialogs open directly on top of the mouse pointer, the hourglass remains until the mouse is moved (usually across a border or icon).
- 158• When using the Keyboard option in the Annotation Text Properties dialog to create annotation text, the DEL key does not work correctly. To delete text, use the mouse to highlight the text and press the backspace key.
- 159• The color buttons that indicate the current color for the Inquire Cursor within the Viewer may not display the correct color if the color of the inquire cursor is changed from both the Inquire Color option in the Utilities menu and the Selector Properties option in the Utilities menu. Always use the Inquire Color option to modify the color of the inquire cursor.

WINDOWS ONLY

- 160• When displaying an image in the Viewer with the scroll bars turned off, portions of the image may display incorrectly in the area that previously contained the scroll bars. If this occurs, simply resize the Viewer window.

WINDOWS ONLY

- 161• Resizing the Data Scaling tool in the Viewer may cause the min/max indicators to display incorrectly. If this occurs, close and reopen the Data Scaling tool.

WINDOWS ONLY

- 162• Setting the position of a spectral profile point in the Spectral Profile tool bar will not update the graph. After entering the position for the point graphically, select the point in the Viewer to update the graph.
- 163• When selecting polygons in a Shapefile, the Viewer always selects all polygons the selection tool intersects.
- 164• "Save As" an edited Shapefile will not save edited attributes. The workaround is to save the layer first, then do "Save As".
- 165• If a polygon of a Shapefile is composed of several polygon parts, you can only select it by selecting the first part.

UNIX ONLY

- 166• The colors of the regular menus and pop-up menus may not be correct on dual-headed systems.
- 167• Before using the Data Scaling tool, the image must contain statistics. If the image does not contain statistics, use the Image Information tool to generate the statistics.
- 168• On some Windows dialogs, the X button on the upper right corner used for closing is inactive. On UNIX, these same dialogs are missing the - button on the upper left-hand corner used for closing. These dialogs include:

Interpreter | Hyperspectral Tools: Automatic Rel. Reflectance, Automatic Log Residuals, Normalize, IAR Reflectance, Log Residuals, Rescale, Spectrum Average, Signal To Noise, Mean Per Pixel

Interpreter | GIS Analysis: Search, Index, Overlay, Matrix

HP ONLY

- 169• With some images, using the swipe and blend tools in the Viewer will show invisible rectangular patches in the top layer. This only occurs while adjusting the blend and swipe amount, and is corrected on the display when the swipe/blend is applied.

IMAGINE OrthoBASE

- | | |
|------------------------|--|
| General | <p>170• If you open the Triangulation Properties Interface in the model with frame camera, and you have never run the triangulation for the current block before, you should not click on the buttons "Update" or "Accept", because there is nothing to update or accept. If you intend to do that, you could get a program error.</p> <p>171• The minimum screen display resolution for IMAGINE OrthoBASE is 1024 X 768, but 1280 X 1024 is recommended for efficiency and ease-of-use. If you set your screen to 1024 X 768 and choose a large font, part of the icons on the Point Measurement Tool may be cut off. Therefore, if you want to use 1024 X 768, use a small font.</p> |
| Auto Tie | <p>172• If the AutoTie function does not automatically collect tie points in a pair of images in the block, and you do not receive an error message, it is probably due to the fact that (1) there is no overlap between the pair, or (2) there is too little overlap (less than 15%) between the pair, or (3) the user typed the wrong initial exterior orientation parameters so that the overlap is calculated incorrectly.</p> |
| Frame Camera | <p>173• If your project uses the geographic coordinate system, the Triangulation Report gives you ground coordinates and camera/sensor station coordinates in meters in the topocentric coordinate system.</p> <p>174• It is highly recommended that you create image pyramids before you proceed with fiducial mark measurements, point measurements, and the automatic tie point generation process.</p> <p>175• If a mistake is made during interior orientation fiducial mark measurement that causes exceptionally large errors, the RMSE value may not display in the Frame Editor.</p> |
| <u>WINDOWS 9x Only</u> | <p>176• In some rare cases the CellArray™ in some applications may update itself incorrectly and draw spurious lines on the screen. This does not result in any incorrect display of information; it is just a cosmetic nuisance. This can be cleaned up by refreshing the window.</p> <p>177• In the Triangulation Summary interface of frame camera data, the image RMSE of the unit weight, the image RMSE of GCPs, and check points are displayed without units information. The RMSE of the unit weight is always the same as the image coordinate unit.</p> |
| PushBroom | <p>178• When adding multiple images containing mixed upper and lower case characters to a block file, the case for the chosen file is converted to lower case. However, the case is preserved for all the other files that match the Add File options.</p> |

IMAGINE VirtualGIS

General

- ALPHA ONLY 179• Using the Create Movie option from the IMAGINE VirtualGIS main menu is not supported.
- 180• The total frame count that can be displayed in the Movie tool windows is 230 frames. This limit is imposed on all Movie windows combined. For example, if there is a Movie tool displayed with 100 frames, the next Movie tool can only display 130 frames.
- ALPHA ONLY 181• The Movie tool may display only half of the data for each frame. If this occurs, resize the movie window.
- WINDOWS ONLY 182• If the IMAGINE VirtualGIS or ImageDrape applications do not appear to be displaying the imagery correctly, check the ERDAS IMAGINE Session Log for the message "OpenGL Renderer = (NULL)". If this message appears, then try lowering the screen resolution and rebooting the system.
- HP ONLY 183• When using Stereo with overlay images, the Raster Tiling Quality preference should be set to Good. Using Stereo with a Raster Tiling Quality of Best may use a large amount of memory, and cause the IMAGINE VirtualGIS Viewer to abnormally terminate.
- WINDOWS ONLY 184• The IMAGINE VirtualGIS Viewer may terminate abnormally when the screen saver is enabled on the STB Velocity 128 graphics card.
- IBM ONLY 185• When displaying Virtual Worlds in IMAGINE VirtualGIS, always turn off the IMAGINE VirtualGIS Preference "Use Multi-Threading".
- SGI ONLY 186• When displaying Full Screen Stereo on SGI O2, the Frame Offset configuration should be set to 512.
- HP ONLY 187• IMAGINE VirtualGIS makes use of hardware rendering for Visualize-EG and Visualize-FX2/FX4/FX8 graphics adaptors. Systems with other graphics adaptors may need more memory to run IMAGINE VirtualGIS.
- HP and ALPHA ONLY 188• You cannot create a movie using the Create Movie menu item. Instead, you must use the Start/Stop Movie Recording icon on the IMAGINE VirtualGIS Viewer tool bar.
- 189• When linking an IMAGINE VirtualGIS Viewer and the Viewer, the linked Inquire Cursors will not display the same coordinates/values unless the IMAGINE Viewer is displaying the imagery at 1:1 (default zoom).
- 190• When displaying imagery within the IMAGINE VirtualGIS Viewer in anaglyph mode, make sure that the background is set to a solid color before entering the anaglyph mode. If a faded background is desired, then change to the faded background after entering anaglyph mode.
- SOLARIS CREATOR 3D ONLY 191• The IMAGINE VirtualGIS Scene Properties Fog option does not operate properly when using the Linear option. The Exponential fog will provide accurate results.

- 192• When creating a linked overview from IMAGINE VirtualGIS, the Eye/Target pair may not display correctly in the 2D Viewer. If this occurs, refresh the 2D Viewer. The Eye/Target pair will be displayed.

ALPHA ONLY

- 193• The Tiling Quality preference setting of Better does not work. This setting uses functionality within OpenGL that is not yet supported on Compaq AlphaStations.

UNIX ONLY

- 194• If the Store Movie Frames In preference in the Movie category of the Preference Editor is set to Application, frames of movies created with IMAGINE VirtualGIS may not display correctly. If this occurs, reset the preference to X Server.
- 195• The process of changing the level of detail, using the View to IMG option, and importing a model in the IMAGINE VirtualGIS Viewer cannot be cancelled.

SGL ONLY

- 196• When displaying an image overlay in the IMAGINE VirtualGIS Viewer, white patches may sometimes appear in the image. If this occurs, increase the lockable graphics memory system setting. Follow the installation instructions for IMAGINE VirtualGIS for details on this setting.
- 197• The IMAGINE VirtualGIS Viewer may not display the imagery correctly after exiting Stereo-In-A-Window. If this occurs, resize the IMAGINE VirtualGIS Viewer after exiting stereo.

WINDOWS 9x ONLY

- 198• The Virtual World Editor cannot reproject vector coverages due to an unsupported application required by the Virtual World Editor.

IBM ONLY

- 199• The terrain may appear to have a low resolution when zoomed in too closely. To improve the display, select View | Sun Position... from the IMAGINE VirtualGIS menu bar, and click the Use Lighting checkbox off.
- 200• When switching into or out of Stereo mode, the IMAGINE VirtualGIS Viewer shrinks slightly vertically. The window may be resized by dragging the edge with the mouse.
- 201• IMAGINE VirtualGIS may abnormally terminate if closing the VirtualGIS Viewer while flying in Position mode. Stop flying in IMAGINE VirtualGIS before trying to close the IMAGINE VirtualGIS Viewer.

SOLARIS ONLY

- 202• When the Display List Rendering preference is on, the Pixel Transparency option for raster overlay layers does not work properly when using the Sun Elite 3D graphics card using OpenGL 1.1.2.

SOLARIS ONLY

- 203• Shading may not appear correctly when displaying elevation models within IMAGINE VirtualGIS or ImageDrape that are georeferenced in Geographic coordinates on the SUN Elite 3D graphics card. If this occurs, reproject the imagery out of Geographic coordinates and redisplay in IMAGINE VirtualGIS or ImageDrape.
- 204• It may be possible to see the shading of an Intervisibility dome through the terrain of mountainous areas on some graphics cards.
- 205• When using the Model Properties dialog to position an imported model with the coordinate preference set to Lat/Lon, the model's actual coordinate position may deviate slightly from the position displayed in the dialog.
- 206• Displaying imagery in IMAGINE VirtualGIS while in the anaglyph stereo mode will not display correctly unless the background is set to black.

- 207• Displaying a calibrated DEM with a reduction factor in IMAGINE VirtualGIS before processing it in the Virtual World Editor, may introduce zero values on the edges of the displayed image.
 - 208• When exiting Full Screen stereo, the following options in the Quick View menu are enabled even though they may appear to be turned off: Status Bar, Menu Bar, Tool Bar, and Borders.
 - 209• When changing the band combinations of an image displayed in the IMAGINE VirtualGIS Viewer and the arrange layers dialog is displayed, the arrange layers dialog must be closed and redisplayed for the changes to the band combinations to be displayed correctly within the tool.
 - 210• The IMAGINE VirtualGIS Flight Path Editor may not work correctly if there are points within the Flight Path that have the exact same location. If this occurs, simply delete one of the flight path points and reapply.
 - 211• When selecting a point within IMAGINE VirtualGIS to use when creating a flooded area, the observer must be zoomed in fairly close to the elevation model to determine the exact elevation value for the selected point. If the area is created using the default elevation value and no flood is generated, then you must manually set the elevation point to a lower value. In general, you should try to select a point that would represent a lower elevation than the surface of the flooded region.
 - 212• When starting ERDAS IMAGINE, if there is an error displayed regarding the VGAPP.DLL file, then your current installation must have included the VirtualGIS module. Since VirtualGIS requires OpenGL, OpenGL must be installed on the system to keep this message from being displayed. Otherwise, ERDAS IMAGINE should be reinstalled without the VirtualGIS module.
 - 213• The IMAGINE VirtualGIS Viewer does not currently support displaying images or vector layers that have a different projection than the current elevation model.
- SGI ONYX REALITY2 SYSTEMS ONLY
- 214• Negative exaggerations can prevent imagery from displaying properly in the IMAGINE VirtualGIS Viewer.
- SOLARIS ONLY
- 215• The viewshed observer displayed in the 2D ERDAS IMAGINE Viewer may leave remnants as it is being moved. If this occurs, set your Use Fast Selectors preference in the Viewer category of the Preference Editor to false.
 - 216• Entering and exiting Stereo mode may cause the pitch and azimuth values in the Heads-Up-Display not to display correctly.
 - 217• Using the Layer Offset tools with Pixel Transparency with truecolor or grayscale imagery may cause some of the background to show through the imagery.
 - 218• Pyramid layers are never generated in IMAGINE VirtualGIS regardless of your preferences in the Image Files (General) category of the Preference Editor. To create pyramid layers, select Edit | Compute Pyramid Layers... from the Image Information dialog menu bar.
- WINDOWS ONLY
- 219• On Riva TNT based graphics cards, the Pixel Transparency option may not work properly for Raster overlay layers.

- 220• Changes to viewing parameters are not remembered by the Set Look Direction dialog. If you change a viewing parameter, then close the dialog, you must reset that parameter the next time you open the dialog.
- 221• Sometimes, when linking the IMAGINE VirtualGIS Viewer to a 2D ERDAS IMAGINE Viewer, the link/unlink instructions dialog might not display a message. However, you can still link the Viewers by clicking the 2D ERDAS IMAGINE Viewer.
- 222• On some graphics cards, editing a flight line point directly in the IMAGINE VirtualGIS Viewer may cause the elevation model to change colors to that of the Flight Line Color. Click Apply in the Scene Properties dialog to restore the elevation model color to that of the Terrain Color.
- 223• When displaying the sun in IMAGINE VirtualGIS by using the Lens Flare layer, it is possible to move the sun in front of the terrain.
- 224• The sun displayed in IMAGINE VirtualGIS using the Lens Flare plug-in will not be displayed properly in a View to Image file operation if the output size is larger than 100%.
- 225• Changing the color of the Eye/Target selector in the Viewer may not change the color of the entire eye or target point.
- 226• The inquire arrows in the VirtualGIS Viewer Inquire Cursor do not work properly with imagery georeferenced to Latitude/Longitude.

ALPHA ONLY

Virtual World Editor

HP ONLY

- 227• When using the fx2 graphics card, shading may appear incorrectly. If this occurs, select View | Sun Positioning... from the IMAGINE VirtualGIS Viewer menu, and click the Use Lighting checkbox off.
- 228• When Virtual World Editor | Process | Build All is selected to run on sectors of previously built data, the sectors must be deselected, then reselected before Display Selected Data in 2D Viewer and Display Selected Data in IMAGINE VirtualGIS become enabled.

IMAGINE Radar Mapping Suite

IMAGINE IFSAR DEM™ 229• When using IFSAR to generate DEMs from a very complex image, the process may run out of memory during the phase unwrapping step causing the module to fatal error or produce a blank image. You may need to increase the swap space. On Compaq AlphaStation, you may need to reassign the maximum allowable program segment to a larger value.

If this does not resolve the problem, a simple workaround is to process two overlapping subsets of the image and mosaic the subsequent DEMs. Subsetting is easily done within the IMAGINE IFSAR DEM module itself.

IMAGINE StereoSAR DEM™ 230• In order to use the tour guides for the IMAGINE Radar Mapping Suite™, you will need writable versions of the files, found under the <IMAGINE_HOME>/examples directory.

- IFSAR_Match.img
- IFSAR_Ref.img
- DeathValley_Radarsat.img
- StereoSAR_Match.img
- StereoSAR_Ref.img

The best practice is to make copies of the original data and follow the Tour Guide procedure. Alternatively, you can add write privileges to the images under <IMAGINE_HOME>/examples. Under UNIX, run:

chmod 777 filename

Under Windows, visit the file properties and turn off the "Read-only" flag.