# **Supported Devices Guide ArcGIS 8.1**

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NOTE! This document now uses the Support Levels set in ArcOnline. <a href="http://arconline.esri.com/arconline/sysreqs/supportlevels-rpt.cfm">http://arconline.esri.com/arconline/sysreqs/supportlevels-rpt.cfm</a>

#### **Using the Supported Devices Guide**

Environmental Systems Research Institute (ESRI®) has assigned several levels to define and document the support and functionality of various devices in their ability to work successfully with ArcGIS® Version 8.1 and ArcView GIS® 3.2. System configurations, connections, and peripherals can all contribute to the success or failure of any device working with ArcGIS 8.1 and ArcView GIS 3.2.

NOTE! This document now uses the Support Levels set in ArcOnline. <a href="http://arconline.esri.com/arconline/sysregs/supportlevels-rpt.cfm">http://arconline.esri.com/arconline/sysregs/supportlevels-rpt.cfm</a>

This guide is continually updated as new devices and upgrades to existing devices are released. Information about supported operating systems is available from:

ESRI's ArcOnline

http://arconline.esri.com

Questions or problems regarding a particular device and/or configuration should be directed to either of the following:

ESRI Technical Support

http://support.esri.com

If you are using this document to help you decide which devices to purchase for use with ArcGIS software, please contact your regional sales office, local distributor outside the United States, or:

ESRI Hardware Marketing

http://www.esri.com/partners/hardware/hw promo.html

### **Supported graphics options**

#### Windows NT and Windows 2000-Intel

ArcGIS Version 8.1 and ArcView GIS are compatible with all Microsoft<sup>®</sup> Windows NT<sup>®</sup> and Windows 2000<sup>®</sup> supported devices and drivers listed in Microsoft's Hardware Compatibility List (HCL) at <a href="http://www.microsoft.com/hwtest/hcl">http://www.microsoft.com/hwtest/hcl</a>. If you do not have Internet access, contact Microsoft Sales in the U.S. at 800-426-9400 for information.

For information regarding graphics device support for the Intel NT or any other platform, look at the ESRI ArcOnline home page <a href="http://arconline.esri.com/">http://arconline.esri.com/</a>.

#### Unix

ArcGIS Version 8.1 and ArcView GIS are compatible with vendor supported graphics cards. Contact your Unix hardware vendor for a list of supported graphics cards.

For more details on how to run ArcInfo and ArcView GIS with a 24-bit graphics card, refer to ArcInfo's or ArcView GIS System setup for Sun.

ArcInfo and ArcView GIS do not take advantage of the Z buffer and/or 3-D vectors.

#### **Thin Clients**

There is rising interest in the use of thin client computing among many ArcGIS, ArcInfo and ArcView GIS users. Thin client software allows a network connected device to attach to a high-speed computing network, access a host or server system, execute applications there, and provide graphics display and windowing capabilities.

The following is a table of X server and Terminal software available for all supported UNIX and Windows computer systems. ESRI does not guarantee compatibility of this type of software with any host.

Users are responsible for setting up an X Window environment from the host to a PC using X server software. Within ArcInfo Version 8.1, X server software must be able to perform the following commands successfully; DISPLAY 9999 (sets display size; produces graphics display) and &TERM 9999 (sets terminal type).

Manufacturer/ software	Support class	Notes
X server software (b)		
PC TGRAPH-07	4	
Mac TGRAPH-07	4	
Synergy VersaTerm™	4	Menu picks with mouse may be misregistered
Pathworks™ for DOS and Macintosh™	4	
Age Xoftware/32™ v1.0	4	
PC Xview™ for Windows	4	
SCO Xvision™ for Windows	4	
Digital Pathworks™ 32 v7.1A	2	
WRQ <sup>®</sup> Reflection <sup>®</sup> X v8.0.5	2	Colors may display incorrectly on Tru64
Hummingbird eXceed™ v7.0 Windows95	2	Colors may display incorrectly on Tru64
Hummingbird eXceed™ v7.0 WindowsNT	2	Colors may display incorrectly on Tru64
NCD PC Xware ™ Version 4.01	2	
NCD PC Xware ™ Version 5.01	2	
Terminal software	•	
Citrix ICA Client for Windows	2 (a)	Performance is impaired with high colordepth.
Citrix ICA Web Client	2 (a)	Performance is impaired with high colordepth.
Citrix ICA Java Client	2 (a)	Performance is impaired with high colordepth.
Microsoft Terminal Services Client	2 (a)	
Microsoft Terminal Services Advanced Client	2 (a)	
VNC v3.3.3 R7	2	Performance is impaired with high colordepth.

#### **Footnotes**

- (a) The standard protocols are limited to 256 colors for the purpose of minimizing network bandwidth utilization (Citrix Feature Release 1 resolves most of these limitations). This means that:
  - ArcMap transparency functionality does not work. This is because transparency functionality requires true color, which is not supported by the protocols (ICA and RDP).
  - High-resolution imagery, such as color ortho photography, does not be display or print properly. This, again, is caused by the 256-color limitation. The images will be displayed, but may be highly diluted.

#### **Supported digitizers**

Digitizers are electronic drafting boards used to create and edit geographic data from hardcopy sources. They may also be used to make menu picks from menus on the digitizer surface.

The following table displays the digitizer support class for NT Desktop, and the support class and available digform files for UNIX and NT Workstation by digitizing mode (Point and Stream). For additional information, be sure to check the "Notes" column and the footnotes.

ESRI supports direct connection of the d4igitizers to the UNIX or NT host only via an RS-232 interface.

Digitizing from an X terminal serial port or third-party interface is possible in many cases, but it may require information and support from the UNIX computer system and digitizer vendors and is *not* supported by ESRI.

To digitize with ArcMap, you will need to install the required Windows driver for your digitizer, which should be available from the manufacturer. Please consult your the digitizer manufacturer's documentation, website or customer services for additional help. NOTE: your digitizer setup for ArcMap may not be compatible for use with ArcInfo Workstation and vice versa. If you plan to use your digitizer with both ArcMap and ArcInfo Workstation, you will need a com port and setup for both. Please refer to the ESRI Technical Support website (http://www.esri.com/techsupport) for help.

To customize a digitizer interface with ArcInfo Workstation, the digitizer format file can be found in ARCHOME/digform, prefixed by "dig\_".

Digitizer model	ArcMap	ArcInfo Workstation	ArcInfo Workstation	Notes
		Point	Stream	
Altek AC90C	4	4 altek	4	Discontinued
Altek AC30	4	4 altek30	4	Discontinued
Altek AC31	1	1 altek	1 altek	Vendor Driver causes beeping from computer
Altek AC32	1	1 altek	1 altek	Vendor Driver causes beeping from computer
Altek AC40C	4	4 altek	4	
Altek AC41	1	1 altek	1 altek	Vendor Driver causes beeping from computer
Altek Datatab II	4	4 altek	4	
Altek Datatab IV	4	4 altek31	4	
CalComp 2000	4	4 2000	4	
CalComp 2300	4	4 9100	4	Discontinued
CalComp 2500	4	4 2500	4	Discontinued
CalComp 8000	5	5 9000	5	Discontinued

Digitizer model	ArcMap	ArcInfo Workstation	ArcInfo Workstation	Notes
		Point	Stream	
CalComp 9000	4	4 9000	4	Discontinued
CalComp 9100	4	2 9100	2 9100	Discontinued
CalComp 9500	4	2 9500	2 9500	
CalComp 33000 Series	1	1 9100	1 9100	
CalComp 34000 Series	1	1 9100	1 9100	Drawing Board III
CalComp Drawing Slate II	1	1 9100	1 9100	
CalComp EstiMat	5	2 9100	2 9100	
GTCO Accutab	1	1 gtco16	1 gtcostrm	
GTCO Digi-Pad	4	4 gtco	4	
GTCO Sketchmaster	4	4 gtcosket	4	
GTCO Super L	4	4*	4*	*Refer to ArcDoc "Adding a digitizer interface" to create customized format files.
GTCO Super L II	5	1 gtco16	1 gtcostrm	
GTCO Ultima	5	5	5	
GTCO 2024 Rollup	5	1 gtco16	1 gtcostrm	
GTCO 2024 Rollup II	5	1 gtco16	1 gtcostrm	
GTCO 3036R Roll Up	5	1 gtco16	1 gtcostrm	
GTCO Ultima II	4	2 9100	2 9100	Set to emulate CalComp 9100
Houston Instruments Complot 7000	5	5	5	Requires developing a customized format file
Houston Instruments HIPAD	5	5	5	
Houston Instruments HIPAD1	5	5	5	
Kurta IS/One	4	4 kurtais1	4	
Kurta IS 3	4	4 kurtais3	4	
Numonics 2000	4	4 numo2000	4	
Numonics 2200	4	4 numo	4	
Numonics Accugrid	4	4 accu	4 accu	Set to emulate CalComp 9100
Numonics Accugrid III	4	4 accu	4 accu	Set to emulate CalComp 9100
Numonics GridMaster	4	4 sgbp2	4	
Summagraphics Summagrid V	1	1 sg5	1 sg5	
Summagraphics 2000	4	4 mgrid	4	
Summagraphics Bit Pad I	4	4 sgbp1	4	
Summagraphics Bit Pad II	4	4 sgbp2	4	

Supported Devices Builde								
Digitizer model	ArcMap	ArcInfo Workstation	ArcInfo Workstation	Notes				
		Point	Stream					
Summagraphics Microgrid	4	4 sgmg3	4					
Summagraphics Microgrid II	4	4 sgmg3	4					
Summagraphics Microgrid III	4	4 sgmg3	4					
Summagraphics MM1201	4	4 sg1201	4					
Summagraphics SummaGrid IV	4	2 sgfour	2					
Summasketch Professional I	5	5 ss2pp	5					
Summasketch II	5	5 ss2	5					
Summasketch Professional II	5	5 sspro2	5					
Summasketch Professional II	5	5 ss2pp	5					
plus								
Summasketch Professional III	1	1 sspro3	1 sspro3					

#### **Supported scanners**

ArcScan™ provides software tools that allow ArcInfo software users to import, correct, edit, vectorize, print, and export scanned raster documents. ArcScan works with raster data output by scanners that convert map information to raster images.

ArcInfo and ArcScan are hardware independent and support several industry-standard raster data formats. For a scanner to be usable with ArcInfo, it must output data in one of these standard formats, preferably TIFF or RLC. ArcScan has been tested with scanners from the leading manufacturers. Large format scanners are available from several vendors, including IDEAL Scanners and Systems, Vidar Systems Corporation, and others. Additionally, scanners from select manufacturers are made available through ESRI: <a href="http://www.esri.com/hwpromo">http://www.esri.com/hwpromo</a>

Look for the following characteristics when selecting scanning hardware for use with ArcScan:

- Well-constructed, reliable devices
- Support for E-size scans at 300–600 DPI optical resolution
- Support for 8-bit grayscale and bi-tonal output
- Adjustable and dynamic threshholding capabilities
- Capable of meeting accuracy requirements of target GIS database
- Data output in a format directly accessible to ArcInfo (e.g., RLC, TIFF 5.0)
- Convenient platform support (i.e. Windows98, WindowsNT, Windows 2000, etc.)
- A simple, intuitive, and fully functional user interface
- Local installation and support services

#### **Supported printers**

ESRI supports Ethernet and direct connection of printers and plotters to a computer workstation or server via an RS-232 or parallel interface. The user is responsible for connecting and establishing communications between the printer and the host.

The support level ratings for the following listed devices are based on their ability to correctly interpret and render graphics using ArcGIS Version 8.1 and ArcView GIS 3.2 output formats. Each device was tested using the most current released firmware available at the time.

PostScript (.eps, .ps) and Enhanced Windows Metafile (.emf) are supported by ArcGIS and ArcView GIS 3.2 software. Because these formats are supported on a wide variety of desktop and large format printers, ESRI has not listed each and every supported printer. If you are unsure whether a specific printer will support these formats, check the 'Standard Printer Input Formats' listed for each printer in the Printer Specifications section or your printer manufacturer's documentation.

#### **Important information on ArcPress RTL drivers**

ArcPress for ArcGIS 8.1 now includes a new RTL driver that is supported on all HP DesignJet Printers that support on-board device dithering, including the new HP DesignJet 5000 and 800 series printers. The driver is based on the true color RGB model and is highly recommended for those who are dissatisfied with the darkness of the existing ArcPress RTL drivers.

This driver will be referred to as the "ArcPress RTL Device Dithered RGB" driver in reference to ArcMap engine support and "rtl\_rgb" in reference to ArcPress support (this is the new command line name for this driver). Please consult the ArcPress for ArcGIS 8.1 documentation for more information on this and other ArcPress drivers.

# Key to reading supported printers guide

In the following example, drivers in ArcMap, ArcInfo, ArcPress and ArcView GIS software support the printer. Each driver is listed with its corresponding support class in front and any footnotes following. ArcMap, ArcInfo and ArcView GIS support the Hewlett-Packard DesignJet 1055CM with postscript with a class 1 rating while ArcPress supports the same printer with rtl\_rgb, rtl36\_cmy or rtl36\_bw with a class 1 rating.

Printer model	Size	ArcMap Engines	ArcInfo Workstation Drivers	ArcPress Drivers	ArcView 3x Drivers	Notes
Hewlett-Packard DesignJet 1055CM	E/A0	1 Windows (a) 1 PostScript (a) 1 ArcPress RTL Device Dithered - RGB	5 hpgl 3 hpgl2 (a) 3 rtl 1 postscript (a)	1 rtl_rgb 1 rtl36_cmyk 1 rtl36_bw	1 postscript (a)	

**NOTE!** This document now uses the Support Levels set in ArcOnline (<a href="http://arconline.esri.com/arconline/sysreqs/supportlevels\_rpt.cfm">http://arconline.esri.com/arconline/sysreqs/supportlevels\_rpt.cfm</a>) and the footnotes have been updated; please check these carefully.

Printer model	Size	ArcMap Engines	ArcInfo Workstation Drivers	ArcPress Drivers	ArcView 3x Drivers	Notes
Inkjet – desktop					•	
EPSON Stylus 800, Photo	A/A4			5 eppro_cmyk 5 eppro_bw		PostScript supported via vendor upgrade
EPSON Stylus Pro, Pro XL	A/A4, B/A3			2 eppro_cmyk 2 eppro_bw		
EPSON Stylus 1500, 1520, 3000	A/A4, B/A3			2 eppro_cmyk 2 eppro_bw		ArcPress driver does not support 1440 dpi
Hewlett-Packard DeskJet 1000C	A/A4, B/A3			5 pcl_cmy 5 pcl_bw		
Hewlett-Packard DeskJet 1100C, 1120C	A/A4, B/A3	3 Windows (a) 5 PostScript (a) 3 ArcPress PCL5-DeskJet		2 pcl_cmy 2 pcl_bw	5 postscript	
Hewlett-Packard DeskJet 1200C	A/A4	3 Windows (a) 5 PostScript (a) 3 ArcPress PCL5-DeskJet	2 hpgl2 (a) 5 postscript (a)	2 pclc_cmy 2 pclc_bw	5 postscript	
Hewlett-Packard DeskJet 1200C/PS, 1600CM	A/A4	3 Windows (a) 3 PostScript (a) 3 ArcPress PCL5-DeskJet	2 hpgl2 (a) 2 postscript (a)	2 pclc_cmy 2 pclc_bw	2 postscript (a)	
Hewlett-Packard PaintJet XL	A/A4		2 hpgl 2 hpgl2 (a)	2 pclc_cmy 2 pclc_bw		
Hewlett-Packard PaintJet XL300	A/A4, B/A3		5 hpgl2 (a) 2 postscript (a)	2 pclc_cmy 2 pclc_bw	2 postscript (a)	
Hewlett-Packard Color Pro GA, CAD	A/A4, B/A3	5 ArcPress		5 rtl_rgb 5 rtl36_cmyk 5 rtl36_bw		

			Supported Devices			
Printer model	Size	ArcMap Engines	ArcInfo Workstation Drivers	ArcPress Drivers	ArcView 3x Drivers	Notes
Hewlett-Packard Professional Series 2500C	A/A4, B/A3	2 Windows (a) 5 PostScript (a) 2 ArcPress PCL5-DeskJet		2 pcl_cmy 2 pcl_bw	5 postscript	
Hewlett-Packard Professional Series 2500CM	A/A4, B/A3	2 Windows (a) 2 PostScript (a) 2 ArcPress PCL5-DeskJet		2 pcl_cmy 2 pcl_bw	2 postscript (a)	
Tektronix Phaser II	A/A4		2 postscript		2 postscript	
Tektronix Phaser III	A/A4, B/A3		2 postscript		2 postscript	
Tektronix Phaser 140	A/A4		2 postscript (a)		2 postscript (a)	
Tektronix Phaser 340	A/A4		2 postscript (a)		2 postscript	
Tektronix Phaser 550	A/A4		2 postscript (a)		p 2 2 2 2 2 2	
Tektronix Phaser 850	A/A4	2 Windows 2 PostScript 2 ArcPress PCL5-DeskJet	_ possespr (e)	2 pclc_cmy 2 pclc_bw	2 postscript (a)	
Inkjet – large form	at					
CalComp CrystalJet	42", 54"		3 colorhcbs (a) 3 hpgl2 (a) 3 rtl 3 postscript (a)	3 ccrf36_il	3 postscript (a)	
CalComp TechJet, TechJet GT, TechJet GT/PS, TechJet 175I TechJet 5500	D/A1, E/A0		3 calcomp (c,d) 3 colorhcbs (a) 3 hpgl (c,d) 3 hpgl2 (a) 3 rtl 3 postscript (a)	3 ccrf36_il	3 postscript (a)	
ENCAD NovaJet I (Rev J), II (Rev C)	E/A0		3 hpgl 5 rtl	5 rtl_rgb 5 rtl36_cmyk 5 rtl36_bw		ArcInfo and ArcPress RTL not supported

Printer model	Size	ArcMap Engines	ArcInfo Workstation Drivers	ArcPress Drivers	ArcView 3x Drivers	Notes
ENCAD NovaJet III, IV, Pro, Pro E series	D/A1, E/A0		5 rtl	5 rtl_rgb 2 rtl36_cmyk 2 rtl36_bw		ArcInfo RTL and ArcPress RTL Device Dithered RGB not supported.
ENCAD NovaJet 600e, 700 series	42", 60"		2 hpgl2 (a) 5 rtl	5 rtl_rgb 2 rtl36_cmyk 2 rtl36_bw		ArcInfo RTL and ArcPress RTL Device Dithered RGB not supported.
Hewlett-Packard DesignJet 250C	D/A1, E/A0		2 hpgl (a) 2 hpgl2 (a) 2 rtl	5 rtl_rgb 2 rtl36_rgb 5 rtl36_cmyk 5 rtl36_bw		ArcPress RTL Device Dithered RGB not supported.
Hewlett-Packard DesignJet 350C	D/A1, E/A0		2 hpgl (a) 2 hpgl2 (a) 2 rtl	<ul><li>2 rtl_rgb</li><li>2 rtl36_cmyk</li><li>5 rtl36_rgb</li><li>2 rtl36_bw</li></ul>		
Hewlett-Packard DesignJet 450C, 455CA*	D/A1, E/A0	1 Windows (a) 5 PostScript (d) 1 ArcPress RTL Device Dithered - RGB	2 hpgl2 (a) 2 rtl 5 postscript (d)	1rtl_rgb 1 rtl36_cmyk 5 rtl36_rgb 1 rtl36_bw	5 postscript (d)	*Includes 3 <sup>rd</sup> party external PostScript RIP software
Hewlett-Packard DesignJet 500, 500PS*  Optional HPGL2 card available for both 500 & 500PS	24", 42"	1 Windows (a) 5 PostScript (d) 1 ArcPress** RTL Device Dithered - RGB	2 rtl (a)** 2 hpgl2 (a)** 5 postscript (d)	1 rtl_rgb** 5 rtl36_cmyk 5 rtl36_bw	5 postscript (d)	*Includes 3 <sup>rd</sup> party external PostScript RIP software  **Requires optional HPGL2 card

Printer model	Size	ArcMap Engines	ArcInfo Workstation Drivers	ArcPress Drivers	ArcView 3x Drivers	Notes
Hewlett-Packard DesignJet 650C	D/A1, E/A0	3 Windows (a) 5 PostScript 3 ArcPress RTL CMYK, RTL RGB (for Model A printers only)	2 hpgl 2 hpgl2 (a) 2 rtl 5 postscript	5 rtl_rgb 2 rtl36_cmyk 2 rtl36_rgb 2 rtl36_bw	5 postscript	RTL36_RGB is for Model A. RTL36_CMYK is for Model B. ArcPress RTL Device Dithered RGB not supported.
Hewlett-Packard DesignJet 650C/PS	D/A1, E/A0	3 Windows (a) 3 PostScript (a) 3 ArcPress RTL CMYK, RTL RGB (for Model A printers only)	2 hpgl 2 hpgl2 (a) 2 rtl 2 postscript (a)	5 rtl_rgb 2 rtl36_cmyk 2 rtl36_rgb 2 rtl36_bw	3 postscript	RTL36_RGB is for Model A. RTL36_CMYK is for Model B. ArcPress RTL Device Dithered RGB not supported.
Hewlett-Packard DesignJet 750C, 750C Plus	D/A1, E/A0	<ul><li>1 Windows (a)</li><li>5 PostScript</li><li>1 ArcPress</li><li>RTL Device</li><li>Dithered - RGB</li></ul>	5 hpgl 2 hpgl2 (a) 2 rtl 5 postscript	1 rtl_rgb 1 rtl36_cmyk 1 rtl36_bw	5 postscript	ArcPress RTL Device Dithered RGB recommended.
Hewlett-Packard DesignJet 755CM	E/A0	1 Windows (a) 1 PostScript (a) 1 ArcPress RTL Device Dithered - RGB	5 hpgl 2 hpgl2 (a) 2 rtl 2 postscript (a)	1 rtl_rgb 1 rtl36_cmyk 1 rtl36_bw	2 postscript (a)	ArcPress RTL Device Dithered RGB recommended.
Hewlett-Packard DesignJet 800	24", 42"	<ul><li>1 Windows (a)</li><li>5 PostScript</li><li>1 ArcPress</li><li>RTL Device</li><li>Dithered - RGB</li></ul>	5 hpgl 3 hpgl2 (a) 3 rtl 5 postscript	1 rtl_rgb 5 rtl36_cmyk 5 rtl36_bw	5 postscript	ArcPress RTL- CMYK not supported.

Printer model	Size	ArcMap Engines	ArcInfo Workstation Drivers	ArcPress Drivers	ArcView 3x Drivers	Notes
Hewlett-Packard DesignJet 800PS	24", 42"	1 Windows (a) 1 PostScript (a) 1 ArcPress RTL Device Dithered - RGB	5 hpgl 3 hpgl2 (a) 3 rtl 2 postscript (a)	1 rtl_rgb 5 rtl36_cmyk 5 rtl36_bw	2 postscript (a)	ArcPress RTL- CMYK not supported.
Hewlett-Packard DesignJet 1050C	E/A0	1 Windows (a) 5 PostScript 1 ArcPress RTL Device Dithered - RGB	5 hpgl 2 hpgl2 (a) 2 rtl 5 postscript	1 rtl_rgb 1 rtl36_cmyk 1 rtl36_bw	5 postscript	ArcPress RTL Device Dithered RGB recommended.
Hewlett-Packard DesignJet 1055CM	E/A0	1 Windows (a) 1 PostScript (a) 1 ArcPress RTL Device Dithered - RGB	5 hpgl 2 hpgl2 (a) 2 rtl 1 postscript (a)	1 rtl_rgb 1 rtl36_cmyk 1 rtl36_bw	1 postscript (a)	ArcPress RTL Device Dithered RGB recommended.
Hewlett-Packard DesignJet 2000CP	E/A0	<ul><li>1 Windows (a)</li><li>5 PostScript</li><li>1 ArcPress</li><li>RTL Device</li><li>Dithered - RGB</li></ul>	5 hpgl 2 hpgl2 (a) 2 rtl 5 postscript	1 rtl_rgb 1 rtl36_cmyk 1 rtl36_bw	5 postscript	ArcPress RTL Device Dithered RGB recommended.
Hewlett-Packard DesignJet 2500CP	E/A0	1 Windows (a) 1 PostScript (a) 1 ArcPress RTL Device Dithered - RGB	5 hpgl 2 hpgl2 (a) 2 rtl 1 postscript (a)	1 rtl_rgb 1 rtl36_cmyk 1 rtl36_bw	1 postscript (a)	ArcPress RTL Device Dithered RGB recommended.
Hewlett-Packard DesignJet 2800CP	E/A0	4 Windows 5 PostScript (d) 5 ArcPress (e)	5 postscript (d)	5 rtl_rgb (e) 5 rtl36_cmyk (e) 5 rtl36_bw (e)	5 postscript (d)	Includes 3 <sup>rd</sup> party external PostScript RIP hardware

Printer model	Size	ArcMap Engines	ArcInfo Workstation Drivers	ArcPress Drivers	ArcView 3x Drivers	Notes
Hewlett-Packard DesignJet 3000CP	54"	1 Windows (a) 5 PostScript 1 ArcPress RTL Device Dithered – RGB	5 hpgl 2 hpgl2 (a) 2 rtl 5 postscript	1 rtl_rgb 1 rtl36_cmyk 1 rtl36_bw	5 postscript	ArcPress RTL Device Dithered RGB recommended.
Hewlett-Packard DesignJet 3500CP	54"	<ol> <li>Windows (a)</li> <li>PostScript (a)</li> <li>ArcPress         RTL Device         Dithered - RGB     </li> </ol>	5 hpgl 2 hpgl2 (a) 2 rtl 1 postscript (a)	1 rtl_rgb 1 rtl36_cmyk 1 rtl36_bw	3 postscript (a)	ArcPress RTL Device Dithered RGB recommended.
Hewlett-Packard DesignJet 3800CP	54"	4 Windows 5 PostScript (d) 5 ArcPress (e)	5 postscript (d)	5 rtl_rgb (e) 5 rtl36_cmyk (e) 5 rtl36_bw (e)	5 postscript (d)	Includes 3 <sup>rd</sup> party external PostScript RIP hardware
Hewlett-Packard DesignJet 5000	42", 60"	<ul><li>1 Windows (a)</li><li>5 PostScript</li><li>1 ArcPress</li><li>RTL Device</li><li>Dithered - RGB</li></ul>	5 postscript	1 rtl_rgb 5 rtl36_cmyk 5 rtl36_bw	5 postscript	
Hewlett-Packard DesignJet 5000PS	42", 60"	<ol> <li>Windows (a)</li> <li>PostScript (a)</li> <li>ArcPress</li> <li>RTL Device</li> <li>Dithered - RGB</li> </ol>	1 postscript (a)	1 rtl_rgb 5 rtl36_cmyk 5 rtl36_bw	2 postscript (a)	
Hewlett-Packard 300M (monochrome only)	D/A1, E/A0		3 hpgl 3 hpgl2 (a) 3 rtl 3 postscript (a)		3 postscript (a)	
Hewlett-Packard 600M (monochrome only)	D/A1, E/A0		3 hpgl 3 hpgl2 (a) 3 rtl 3 postscript (a)		3 postscript (a)	
RasterGraphics PiezoPrint 5000	54"		3 postscript (a)	3 rgp54_cmyk 3 rgp54_bw	3 postscript (a)	PostScript requires serveware

Printer model	Size	ArcMap Engines	ArcInfo Workstation	ArcPress Drivers	ArcView 3x	Notes
		7 31 .up 2ges	Drivers	7 5. 7 555 27 7 515	Drivers	
Tektronix Phaser 600	E/A0		3 postscript (a)		3 postscript (a)	
LED						
Xerox Phaser 2135	A/A4	2 Windows (a)	2 postscript (a)	3 pclc_cmy	2 postscript (a)	
	B/A3	2 PostScript (a) 3 ArcPress		3 pclc_bw		
Laser						
Hewlett-Packard	A/A4		2 postscript (a)	2 pclc_cmy		
Color Laser 5M				2 pclc_bw		
Hewlett-Packard LaserJet 4000	A/A4		2 postscript (a)	2 pclc_bw		
Hewlett-Packard Color	A/A4,	2 Windows (a)	5 postscript	5 pclc_cmy		
LaserJet 8500	B/A3	5 PostScript 5 ArcPress		5 pclc_bw		
Hewlett-Packard Color	A/A4,	1 Windows (a)	2 postscript (a)	5 pclc_cmy	2 postscript (a)	
LaserJet 8500N,	B/A3	1 PostScript (a)		5 pclc_bw		
8500DN, 8550 series		5 ArcPress				
IBM Lexmark 4079	A/A4, B/A3		3 postscript (a)		3 postscript (a)	
Sun SPARCprinter	A/A4		3 postscript		3 postscript (a)	
Tektronix Phaser 780	A/A4	2 Windows		2 pclc_cmy	2 postscript (a)	
	B/A3	2 PostScript		2 pclc_bw		
Xerox Phaser 790	A/A4	2 Windows	2 postscript (a)	5 pclc_cmy	2 postscript (a)	
	B/A3	2 PostScript		5 pclc_bw		
Electrostatic	1	1				1
CalComp 5700			3 calcomp			
series			3 colorhcbs (b)			
CalComp 5800			3 calcomp			
series			3 colorhcbs (b)			
CalComp 57000 series			3 calcomp 3 colorhcbs (b)			
SELLES			2 COLOTTICUS (D)			

Printer model	Size	ArcMap Engines	ArcInfo Workstation Drivers	ArcPress Drivers	ArcView 3x Drivers	Notes
CalComp 58000 series			3 calcomp 3 colorhcbs (b)	3 ccrf36_cmyk (c) 3 ccrf36_bw (c)	Dilvers	
CalComp 67000 series			3 calcomp 3 colorhcbs 3 hpgl 3 cgm (b)			
CalComp 68000 series			3 calcomp (b) 3 colorhcbs (b) 5 hpgl 3 cgm (a)	3 ccrf36_cmyk 3 ccrf36_bw		
Hewlett-Packard 7600/355			3 hpgl 3 hpgl2 (a)			
Hewlett-Packard 7600/250 & 255			3 hpgl 3 hpgl2 (a)			
Phoenix Precision Graphics	E/A0			3 ccrf36_cmyk		
RasterGraphics ColorStation 400	E/A0		3 calcomp (b) 3 colorhcbs (b) 3 hpgl (b) 3 hpgl2 (b) 3 postscript	3 rgi36_cmyk 3 rgi36_bw	3 postscript	
RasterGraphics ColorStation 800	F		3 calcomp 3 colorhcbs 3 hpgl 3 hpgl2 3 postscript		3 postscript	
Synergy			3 postscript			Color or D/M
Versatec ecp42 (1), c2568, ce3244, ce3436			3 vcgl	F/9/01		Color or B/W.

Printer model	Size	ArcMap Engines	ArcInfo Workstation Drivers	ArcPress Drivers	ArcView 3x Drivers	Notes
Versatec 8900 Series I	E/A0		3 calcomp 3 hpgl 3 vcgl	3 vrf36_cmyk (c)		
Versatec other mono and color electrostatics			3 vcgl (c)			Printer must support VCGL - contact Xerox Engineering Services for a list of Versatec printers and their VCGL compatibility. Color or B/W.
Versatec 8900 Series II	E/A0		3 calcomp (b) 3 vpgl (b, c) 3 vcgl2 (b, c)	3 vrf36_cmyk		
Thermal	1				1	
CalComp Colormaster Plus 6600 VRC			3 calcomp 3 colorhcbs (b)			
CalComp Colormaster Plus 6600 PS, PS XF			3 postscript (a)		3 postscript (a)	
CalComp 52000 series DrawingMaster Plus Red or B/W.			3 calcomp 3 colorhcbs (a, b) 3 hpgl			Color emulation does not work 100%; OPAQUE mode using the color white produces a transparent effect.

Printer model	Size	ArcMap Engines	ArcInfo Workstation Drivers	ArcPress Drivers	ArcView 3x Drivers	Notes
CalComp			3 calcomp			
Colorview 5900			3 colorhcbs (b)			
VRC Series						
Seiko ColorPoint II			3 postscript			
Versatec 8800			3 vcgl			
Pen						
CalComp 1039			3 calcomp			
CalComp 1040 series,			3 calcomp			
1050 series						
CalComp 1070 series			3 calcomp			
CalComp 2024			3 calcomp			
PaceSetter						
CalComp 2036			3 calcomp			
PaceSetter						
CalComp 4036			3 calcomp			
Classic						
Hewlett-Packard			3 hpgl			
7220						
Hewlett-Packard			3 hpgl			
7470, 7475, 7550			0 1 1			
Hewlett-Packard			3 hpgl			
7570 DraftPro,						
7570 DraftPro DXL,						
7570 DraftPro EXL Hewlett-Packard			2 had had2 (h)			
DraftPro +			3 hpgl, hpgl2 (b)			
Hewlett-Packard			3 hpgl			
7580, 7585			5 Tipgi			
Hewlett-Packard			3 hpgl			
7586						
Hewlett-Packard			3 hpgl			
7595 DraftMaster I			- ···P3·			

Printer model	Size	ArcMap Engines	ArcInfo Workstation Drivers	ArcPress Drivers	ArcView 3x Drivers	Notes
Hewlett-Packard 7595 DraftMaster I SX, SX +			3 hpgl, hpgl2 (b)			
Hewlett-Packard 7596 DraftMaster II			3 hpgl			
Hewlett-Packard 7596 DraftMaster II RX, RX+, MX, MX +			3 hpgl, hpgl2 (b)			
IBM 6180, 6182 AutoFeed 6184, 6186, 7372			3 hpgl			IBM RISC System/6000 only
Zeta 800/900 series			3 zeta			,

#### **Footnotes**

- (a) Some large files may not print due to memory/hard drive size limitations.
- (b) MARKERPEN, LINEPEN, PENSIZE, TEXTPEN not supported by printer.
- (c) Driver support requires controller upgrade from hardware vendor.
- (d) Included PostScript RIP has some limitations or has not been tested by ESRI and is therefore not supported by ESRI.
- (e) All print files forced through 3<sup>rd</sup> party external PostScript RIP software, which does not support pre-rasterized files from ArcPress.

#### PostScript and Adobe Systems, Inc.

Adobe Systems Incorporated develops, markets, and supports PostScript products and technologies that enable users to create, display, print, and communicate electronic documents. Contact Adobe for a list of PostScript products and manufacturers.

Adobe Systems, Incorporated

www.adobe.com

#### Memory limitations using Windows, PostScript and ArcInfo RTL or HPGL2

Although support levels are based on the ability of the printer to correctly interpret and render print jobs, some models may be subject to memory limitations when processing raster (image) data.

HPGL/2 translates each pixel of raster data into a polygon, resulting in very large output files. Windows, PostScript, ArcInfo RTL and HPGL/2 files are not read immediately, so the entire contents of the file must be loaded into the printer's memory for rasterization before imaging. When trying to render large files containing raster data to these devices, the printer's on-board memory or hard disk, if available, may fill up, aborting the image.

Third party, on-host rasterizers such as ArcPress, ZEH, Image Alchemy PS and others, can convert PostScript to a raster printer format that is rendered immediately. These software packages utilize the processor and hard drive of the host to rasterize the metafiles, thereby allowing the printer to maintain a minimum configuration. However, because they use the host resources, care should be taken to ensure that there is enough hard drive space and swap to run this type of software.

Not all third-party rasterizers offer output formats for all types of printers. Contact the manufacturer for questions concerning availability/compatibility of output formats and platforms.

# Third-party network print servers

The following table specifies third-party TCP/IP network print server vendors and their products that have been tested successfully at ESRI with UNIX computers.

Vendor	Notes
Hewlett-Packard	Recommended for use with HP printers.
www.hp.com/net_printing/ppss	
Troy XCD	Wide range of print server products from low-end, single
www.troyxcd.com	printer units, to multi-network able, web-supportable
	products.

# **Raster image processor software vendors**

The following table specifies raster image processor (RIP) software vendors and their products that support ArcGIS Version 8.1. Call the software vendors for a current list of supported operating systems.

Vendor	Product	Notes			
ESRI, Inc. www.esri.com/software	ArcPress	Recommended by and fully supported by ESRI. Check the ESRI website or contact your Regional Office or International distributor for more details.			
Handmade Software, Inc. www.handmadesw.com	Image Alchemy PS	Not available for all platforms. Contact vendor for current products			
Xerox Engineering Services  www.xes.com	ServeWare	Contact vendor for current products.			
ZEH Graphics Systems, Inc. www.zeh.com		Contact vendor for current products.			