

CADD5[®] 5i Release 13 Release Notes

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Preface

CADDS 5i Release 13 Release Notes include:

- System considerations for UNIX and Windows NT
- Tips
- Considerations

Related Documents

The following documents may be helpful as you use *CADDS 5i Release 13 Release Notes*:

- *Installing CADDS 5i*
- *CV-DORS User Guide*
- *What's New in CADDS 5i Release 13*
- *Using the License Manager*

Book Conventions

The following table illustrates and explains conventions used in writing about CADD5 applications.

Convention	Example	Explanation
Menu selections and options	List Section option, Specify Layer field	Indicates a selection you must make from a menu or property sheet or a text field that you must fill in.
User-selected graphic location	X, d ₁ or P1	Marks a location or entity selection in graphic examples.
User input in CADD5 text fields and on any command line	cvaec.hd.data.param tar -xvf /dev/rst0	Enter the text in a CADD5 text field or on any command line.
System output	Binary transfer complete.	Indicates system responses in the CADD5 text window or on any command line.
Variable in user input	tar -cvf /dev/rst0 filename	Replace the variable with an appropriate substitute; for example, replace filename with an actual file name.
Variable in text	tagname	Indicates a variable that requires an appropriate substitute when used in a real operation; for example, replace tagname with an actual tag name.
CADD5 commands and modifiers	INSERT LINE TANTO	Shows CADD5 commands and modifiers as they appear in the command line interface.
Text string	"SRFGROUPA" or 'SRFGROUPA'	Shows text strings. You must enclose text string with single or double quotation marks.
Integer	n	Supply an integer for the <i>n</i> .
Real number	x	Supply a real number for the <i>x</i> .
#	# mkdir /cdrom	Indicates the root (superuser) prompt on command lines.
%	% rlogin remote_system_name -l root	Indicates the C shell prompt on command lines.
\$	\$ rlogin remote_system_name -l root	Indicates the Bourne shell prompt on command lines.

Window Managers and the User Interface

According to the window manager that you use, the look and feel of the user interface in CADD5 can change. Refer to the following table:

Look and Feel of User Interface Elements

User Interface Element	Common Desktop Environment (CDE) on Solaris, HP, and IBM	Window Manager Other Than CDE on Solaris, HP, IBM, and Windows NT
Option button	ON — Round, filled in the center OFF — Round, empty	ON — Diamond, filled OFF — Diamond, empty
Toggle key	ON — Square with a check mark OFF — Square, empty	ON — Square, filled OFF — Square, empty

Online User Documentation

Online documentation for each book is provided in HTML if the documentation CD-ROM is installed. You can view the online documentation in the following ways:

- From an HTML browser
- From the Information Access button on the CADD5 desktop or the Local Data Manager (LDM)

Please note: The LDM is valid only for standalone CADD5.

You can also view the online documentation directly from the CD-ROM without installing it.

From an HTML Browser:

1. Navigate to the directory where the documents are installed. For example,
 - `/usr/apl/cadds/data/html/htmldoc/` (UNIX)
 - `Drive:\usr\apl\cadds\data\html\htmldoc\` (Windows NT)
2. Click `mainmenu.html`. A list of available CADD5 documentation appears.
3. Click the book title you want to view.

From the Information Access Button on the CADD5 Desktop or LDM:

1. Start CADD5.
2. Choose Information Access, the *i* button, in the top-left corner of the CADD5 desktop or the LDM.
3. Choose DOCUMENTATION. A list of available CADD5 documentation appears.
4. Click the book title you want to view.

From the Documentation CD-ROM:

1. Mount the documentation CD-ROM.
2. Point your browser to:
 - CDROM_mount_point/html/doc/mainmenu.html (UNIX)
 - CDROM_Drive:\html\doc\mainmenu.html (Windows NT)

Online Command Help

You can view the online command help directly from the CADD5 desktop in the following ways:

- From the Information Access button on the CADD5 desktop or the LDM
- From the command line

From the Information Access Button on the CADD5 Desktop or LDM:

1. Start CADD5.
2. Choose Information Access, the *i* button, in the top-left corner of the CADD5 desktop or the LDM.
3. Choose COMMAND HELP. The Command Help property sheet opens displaying a list of verb-noun combinations of commands.

From the Command Line: Type the exclamation mark (!) to display online documentation before typing the verb-noun combination as follows:

```
#01#!INSERT LINE
```

Printing Documentation

A PDF (Portable Document Format) file is included on the CD-ROM for each online book. See the first page of each online book for the document number referenced in the PDF file name. Check with your system administrator if you need more information.

You must have Acrobat Reader installed to view and print PDF files.

The default documentation directories are:

- /usr/apl/cadds/data/html/pdf/doc_number.pdf (UNIX)
- CDROM_Drive:\usr\apl\cadds\data\html\pdf\doc_number.pdf (Windows NT)

Resources and Services

For resources and services to help you with PTC (Parametric Technology Corporation) software products, see the *PTC Customer Service Guide*. It includes instructions for using the World Wide Web or fax transmissions for customer support.

Documentation Comments

PTC welcomes your suggestions and comments. You can send feedback electronically to doc-webhelp@ptc.com.

System Considerations

This chapter provides system considerations for CADD5 5i Release 13 in the following areas:

- What's New in CADD5 5i Release 13
- Web Sites
- Postinstallation Considerations
- CADD5 and Optegra Compatibility
- Supported Compilers
- XML Parser
- Supported Oracle Versions — UNIX
- Setting Up the New License File

What's New in CADD5 5i Release 13

You can now view the What's New document in HTML format in the new Java HTML browser.

If you have an old `.caddsrc-local` file, set the variable `CADD5_SHOW_WHATS_NEW<nn>` to `yes` in the `.caddsrc-local` file to see what is new in CADD5 5i Release 13. The value of `<nn>` is replaced by the current release number. The variable is set as follows:

```
setenv CADD5_SHOW_WHATS_NEWR13 yes
```


Web Sites

The main Web site for Parametric Technology Corporation is
<http://www.ptc.com>.

Accessing Open or Resolved Issues

To search and view reported issues that are specific to a release, follow these steps:

1. Access <http://www.ptc.com/support/support.htm>.
2. Search for Technical Application Notes under Search the Knowledge Base or Track Technical Application Notes (TAN).

To access the search tool, you must have an account with PTC. To open an account go to <http://www.ptc.com/support/support.htm>, click sign up here, or call PTC Customer Service. For details on PTC Customer Service worldwide, see http://www.ptc.com/company/contacts/tech_support.htm.

Postinstallation Considerations

Ensure that Java and Java Script support is turned on in Netscape Navigator 4.06. To enable these features used by Help and Toolkit Wizard documentation, follow these steps:

1. From the Edit menu, click the Preferences option to display the Preferences window.
2. Click the Advanced option in the Preferences window.
3. Select the Enable Java and Enable Java Script options.

Please note: On the IBM RS6000 platform, after installing Help, verify that the environment variable `MOZILLA_HOME` is set to the complete path of the `MOZILLA_HOME` directory. This directory contains the Netscape executable. If this environment variable is not set correctly, Netscape does not find all the files required to operate correctly.

CADD5 and Optegra Compatibility

EPD-Enabled CADD5 5i for Release 13 works only with Optegra 7 and not with the earlier Optegra versions.

Supported Compilers

Compilers for this CADD5 release are listed in the following table.

Platform	Operating System	C	C++	Fortran
HP PA-RISC	HP-UX 11.00/11.00i	A.11.01.02	A.03.15	B.11.01.08
IBM RS/6000	AIX 4.3.3	3.6.6.0	3.6.6.0	6.1.0.0
Sun SPARC	Solaris 2.6 H/W May 98	SPARCCompiler C 5.0	SPARCCompiler C++ 5.0	SPARCCompiler Fortran 5.0
Intel	Windows NT 4.0 SP5	MSVC 6.0 SP5	MSVC 6.0 SP5	Compaq Visual Fortran 6.0

Supported Operating Systems

CADD5 supports the following operating systems and window managers.

Platforms	Operating System Version and Window Manager
HP PA-RISC	HP-UX 11, HP-UX 11i
IBM RS6000	AIX 4.3.3
Sun SPARC	Solaris 2.6 May 1998, Solaris 7, Solaris 8, Solaris 9
Intel	Windows NT 4.0 (Service Pack 6), Windows 2000 Professional (Service Pack 2), Windows XP

Use the command `uname -a` to determine the operating system version of the system.

Supported Patches

CADDS was subjected to final qualifications using system patches that are available on vendor-specific Web sites. The following is a list of the operating system patch bundles that must be installed before you run CADDS 5i Release 13.

Operating System	Recommended Patch Bundle	Specific Patch Required
Solaris 9	Update to Solaris H/W 10/01	OpenGL 1.1.2 107104-13 OpenGL 1.1.2 107105-13 OpenGL 1.2 108131-17 OpenGL 1.2 108132-17 OpenGL 1.2.1 109543-18 OpenGL 1.2.1 109544-18 OpenGL 1.2.2 111993-01 OpenGL 1.2.2 111994-01
Sunblade 2000 Solaris 8 02/02		XVR-1000 112564-05 XVR-500 112564-05 OpenGL 1.2.3 112628-05 (for 32 Bit) OpenGL 1.2.3 112629-05 (for 64 Bit)
Solaris 8	Update to Solaris HW 10/01	OpenGL 1.1.2 107104-13 OpenGL 1.1.2 107105-13 OpenGL 1.2 108131-17 OpenGL 1.2 108132-17 OpenGL 1.2.1 109543-18 OpenGL 1.2.1 109544-18 OpenGL 1.2.2 111993-01 OpenGL 1.2.2 111994-01
Solaris 7	Recommended Patch Cluster January 23, 2002	Creator 3D 106145-25, 106147-06, 106148-13 Elite 3D 106144-27, 106147-06, 106148-13 Expert 3D 108787-16 OpenGL 1.1.2 107104-13 OpenGL 1.1.2 107105-13 OpenGL 1.2 108131-17 OpenGL 1.2 108132-17 OpenGL 1.2.1 109543-18 OpenGL 1.2.1 109544-18 OpenGL 1.2.2 111993-01 OpenGL 1.2.2 111994-01
Solaris 2.6 HW 5/98	Recommended Patch Cluster January 23, 2002 Y2000_ALL Patch Cluster January 23, 2002	Creator 3D 105360-41, 105361-11 Elite 3D 105361-11, 105363-38 Expert 3D 108788-16 OpenGL 1.1.1 106022-09 OpenGL 1.1.2 106735-18 OpenGL 1.2 108131-17 OpenGL 1.2.1 109543-18 OpenGL 1.2.2 111993-01
AIX	AIX 4.3.3	Update to 4.3.3.0-09 (Maintenance Level 9)

Operating System	Recommended Patch Bundle	Specific Patch Required
HP-UX	HP-UX 11.00	B6268AA B.11.00.05 Graphics and Technical Computing Software
		HPUXEng64RT B.11.00.01 English HP-UX 64-bit Runtime Environment
		QPK1100 B.11.00.54.07 Quality Pack for HP-UX 11.00 (September 2001)
		UXCoreMedia B.11.00.02 HP-UX Media Kit (Reference Only)
		PHSS_24627 1.0 HP aC++ -AA Runtime libraries (aCC A.03.33)
HP-UX 11.00i	HP-UX 11.00i	CDE-English B.11.11 English CDE Environment
		HPUX11i-TCOE B.11.11 HP-UX Technical Computing OE Component
		HPUXBase64 B.11.11 HP-UX 64-bit Base OS
		HPUXBaseAux B.11.11 HP-UX Base OS Auxiliary
		PHSS_24638 1.0 HP aC++ -AA runtime libraries (aCC A.03.33)
		GOLDAPPS 11i B.11.11.0112 Gold Applications Patches for HP-UX 11i, December 2001
		GOLDBASE 11i B.11.11.0112 Gold Base Patches for HP-UX 11i, December 2001
		HWEnable11i B.11.11.0112 Hardware Enablement Patches for HP-UX 11i, December 2001
		BUNDLE11i B.11.11.0102 Required Patch Bundle for HP-UX 11i, February 2001.
Windows NT	Windows NT 4.0	Service Pack 6
	Windows 2000 Professional	Service Pack 2
	Windows XP	

XML Parser

CADD5 uses XML parser software in C++ and Java developed by the Apache Software Foundation (<http://www.apache.org/>). Source and binary codes for the software can be found at <http://xml.apache.org>.

Supported Oracle Versions — UNIX

For CADD5 5i Release 13, Oracle 9i Release 2 (9.2.0.1.0) is supported on all platforms.

Setting Up the New License File

You must set up a license file for revision 7.2 of the License Manager before running CADD5. The new FLEX lm license daemons work with the current license files.

Commands for Obtaining Host IDs

To obtain the host ID for an HP platform, type the following command:

```
echo `uname -i` 160 p | dc
```

Setting Up Dual Display

To enable Dual Display for CADD5, you must have a 5910 license in the license file. The 5910 license is available with CC5-CV6528-F (CADD5 EPD.Connect Dualscreen Activation).

This chapter provides tips for working efficiently in CADD5 5i Release 13 in the following areas:

- General CADD5
- CVMAC
- Interactive Surface Designing
- CADD5 Database
- CADD5 on Windows NT

General CADD5

Windows XP

On the Windows XP operating system, if the splash screen is not visible and the following error message appears in the startup session, ignore the error. CADD5 5i starts successfully.

```
Exception in thread "main" java.lang.NpClassDefFoundError::
```

Gateway Application to Theda

The Gateway Application to Theda for license feature number 4110 will not be supported after the last CADD5 5i Release 12 maintenance release and will not be available in CADD5 5i Release 13.

DATASHOP GUI for the IGES Translator

When you start the IGES translator, the DATASHOP GUI for CADD5 5i Release 12 on Windows NT produces the following error message:

```
Error: Can't open display: system:0.0
```

To avoid this error, load the Xserver from the CADD5 5i CD-ROM and start Hummingbird's Exceed X Server 7.1 before starting the DATASHOP GUI on Windows NT.

The Xserver environment is required for the DATASHOP GUI to function.

CVGP11

The CVGP11 applications will be withdrawn from product distribution with the release of CADD5 5i Release 14 and have been moved to an unsupported status for CADD5 5i Release 13. Telephone support for these applications will continue through 2004. However, PTC will not provide solutions for software-specific problems.

These applications have been tested and certified for use with this initial release of CADD5 5i Release 13, datecode 2003100.

Please refer to the customer letter included with CADD5 5i Release 13, which discusses this subject in more depth, the CADD5 5 reference documents at <http://www.ptc.com/cgi/cs/doc/document.pl?product=CC5>, or contact your local PTC representative.

CVMAC

CVMAC ACTPRT Command

When issuing the ACTPRT (Activate Part) command from CVMAC, the Activate Old or New Drawing menus are not displayed. You must use the ACTDRA (Activate Drawing) command after an ACTPRT command in CVMAC for activating an old or new drawing.

CVMAC CALLF Functions

When using the CALLF function in CVMAC, use the charconvtosys() function to convert a character string to a system-specific character string. Similarly use the charconvfromsys() function to convert a system-specific character string to a character string format.

UNIX Format for Text Files

Text files created using CVMACS on CADD5 5i Release 13.0 on the Windows NT platform are created in DOS format, which is not compatible with CVNC programs. Set the following environment variable in the .caddsrc-local file to convert the text files in DOS format to UNIX format.

```
NT_TXTOUT_FORMAT UNIX
```

Interactive Surface Designing

Nsurfaces created with degree 3 in the u-direction and v-direction on CADD5 5i Releases 9, 10, and 11 may fail to regenerate on CADD5 5i Release 13. In such cases, edit the command used for creating the surface and recreate these surfaces on Release 13.

CADD5 Database

A View Part entity (entity 90) added to the database for the HLR and CAMU modules can cause an increase in database size. It can also cause database fragmentation when several View On or Off operations are performed. You can avoid filing the View Part entity into the database both in the Part mode and Assembly mode on CADD5 5i Release 12 and 13.

Part Mode (Multipart Access)

Execute the VIEW PART OFF ALL command before filing and exiting the part in Multipart access. This will remove all View Part entities from the database. Execute the CHECK DBASE command to pack the database and remove fragmentation. You can then file the checked part.

Assembly Mode

Use the FILE & EXIT option from the top menu bar. If you file and exit the part separately by selecting the FILE ASSEMBLY option followed by the QUIT & EXIT option, the View Part entity is filed in the database.

CADD5 on Windows NT

Functionality Supported on Windows NT

This release of CADD5 provides the following capabilities on Windows NT:

Parametric Modeling

- Java-based Tree Navigation Tool
- ISD (Interactive Surface Design)
- Sketcher

Explicit Modeling

- Drafting and Dimensioning
- Hidden Line Removal (HLR)
- Sectioning
- Associative Topology Bus
- Physical Properties
- CVNC M2
- CVNC M3
- Basic Shading
- Image Design
- CGM Plotters
- Compatibility between CVMACS and CVNC

Databases

- Automatic DB Validation
- Explicit view part
- Drawing update in Parametric file part

Assembly

- Displaying a CAMU assembly tree
- CAMU — displaying Java-based assembly tree

CVNC

- T2, M2, M3, M3, M5
- CVGPII support

General

- JDK version 1.3.1 and MKS Operating Environment
- CADD5 5i ISSM
- Enhanced mouse dynamics
- Setting layer colors automatically
- Importing Pro/ENGINEER TIMs converted from CATIA
- Using additional commands in the TIS window
- Maximum instances of an active part for viewing
- Importing Explicit entities into Parametric environment

New APIs to Support

- CV-DORS
- CADD5 5i ISSM

AEC Shipbuilding

- ASM (Advanced Structural Modeling)
- Piping Modeling

Networked Support Drive

To map drives from UNIX to Windows NT, the following products have been validated:

- Hummingbird's Exceed X Server 7.1
- MKS operating environment (NuTCRACKER)

Considerations

This chapter provides considerations for this release of CADD5 in the following areas:

- ATB-Enabled CADD5 5i
- CVNC
- Retired Products

ATB-Enabled CADD5 5i

ATB Features Not Supported for This Release

- When you update a CADD5 5 TIM assembly, the assembly features created on the parent Pro/ENGINEER assembly are not updated.
- The coordinate system created on the Pro/ENGINEER side is not updated on the CADD5 side.

Please note: Datum features are not supported for conversion.

ATB Transactions on an Active CADD5 Part

You can export an active CADD5 part to Pro/ENGINEER TIM. You can also verify and update the Pro/ENGINEER TIM part when the source CADD5 part is active. However, you can not update an active CADD5 5 TIM part. In this case, you should exit from the active CADD5 TIM part and then update it.

Switching between Environments

Do not switch from the LDM environment and the desktop of CADD5 or from the desktop to the LDM environment of CADD5, when a part that you have selected is being checked to determine whether it is a Pro/ENGINEER part or a Pro/ENGINEER TIM part.

CVNC

GPOST for CADD5 5

The GPOST for CADD5 5i postprocessor provides a complete solution for the generation of Machine Control Data (MCD) from CVNC CLFiles, for NC machine tools. You can install GPOST while installing CADD5 5i.

GPOST uses the binary version of the CLFile and an option file to generate an MCD file. The MCD file has the same filename as the CLFile and the `.tap` extension. The option file stores the postprocessing options required for the NC machine. GPOST reads the option file and configures GPOST's internal variable table before reading the CLFile. Thus, allows you to configure GPOST for your NC machine.

Using GPOST: Do the following before using GPOST:

1. Set the `PRO_DIRECTORY` environment variable to the path of the GPOST executable file. For example,
2. Set the `MC` environment variable to the type of the computer on which you are creating the option file. For example, for a Sun Solaris, type

```
setenv PRO_DIRECTORY <loadpoint>/usr/apl/ai
```

```
setenv MC sparc_5
```

Run GPOST using the following command:

```
cvgpost <absolute path to the CLFile> <option file>
```

GPOST creates the MCD file in the directory in which the CLFile exists.

Creating an Option File: In addition to the available standard option files, you can create your own files specific to your NC machine. To create your own files, perform the following steps.

1. Use the following command:

```
$PRO_DIRECTORY/$MC/obj/optfile -sy:2
```

The Option File Generator appears.
2. Set the options for your NC machine and create the option file. For details, see the *G-Post Reference Manual*.
3. Set the `POST_DIR` environment variable to the directory containing the generated option file.

When you now run GPOST, you can use the generated option file.

Constraints for the SURFINT5 Command

The following list outlines the constraints when using the SURFINT5 command for surface intersection machining in CVNC-M5:

- Collision checking is not available.
- When using flat-end or corner-radius tools to machine flat or convex surfaces, it is not always possible to predict the location of a contact point on the flat surface area. This can result in a rocking motion of the tool during machining. The part surface is not gouged, but the surface finish may suffer.
- The DEFRET4 and DEFPLUN4 commands do not work with the SURFINT5 command. Use the DEFPLUN5 and DEFRET5 commands with the SURFINT5 command.

Please note: The features and constraints mentioned in Chapter 10, “Machining Surface Intersections,” of the *CVNC-M5 User Guide* apply only to the SINTCUT4 command and not to the SURFINT5 command. The SURFINT5 command is discussed only in Chapter 9, “Surface Intersection Machining.”

Retired Products

The following products are still available with CADD5 5i Release 13 but are scheduled for retirement beginning with CADD5 5i Release 14.

- CADD5 5 Raster Mode - CC5-CV1050-F
- Design Optimizer - CC5-CV3141-F
- Advance Design Optimizer - CC5-CV3142-F

Beginning with CADD5 5i Release 13, the following PTC products, based on the Formtek product, are no longer supported:

CV: Stellar Sketch	CED-A0177-F
CV: Stellar View	CED-A0178-F
CV: Stellar Cleanup	CED-A0179-F
CV: Stellar Redline	CED-A0180-F
CV: ProSketch	CED-A0181-F
CV: Convert #2	CED-A0182-F
CV: Convert #3	CED-A0183-F
CV: Convert #4	CED-A0184-F
CV: Convert EDMICS	CED-A0185-F
CV: Convert #1-Base FTKGrp4/TIFF/CALS	CED-A0186-F

If you have any concerns or queries for this proposed action, please contact PTC Technical Support or send e-mail to Marc Donoghue (med@ptc.com).

