

CADD5[®] 5i Release 12
Release Notes

DOC-RN60066-EN-120

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8 January 2001**

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Preface

CADD5 5i Release 12 Release Notes include:

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

Related Documents

The following documents may be helpful as you use *CADD5 5i Release 12 Release Notes*:

- *Installing CADD5 5i*
- *CV-DORS User Guide*
- *What's New in CADD5 5i Release 12*
- *Using the License Manager*

Book Conventions

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

| Convention | Examples | 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 | <code>cvaec.hd.data.param</code> <code>tar -xvf /dev/rst0</code> | 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 | <code>tar -cvf /dev/rst0 filename</code> | 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 n. |
| Real number | x | Supply a real number for the x. |
| # | # 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, Compaq, and IBM | Window Manager Other Than CDE on Solaris, HP, Compaq, IBM, SGI, and 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/cadd5/data/html/htmldoc/ (UNIX)
```

```
Drive:\usr\apl\cadd5\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 in the following ways:

- Send comments electronically to doc-webhelp@ptc.com.
- Fill out and mail the PTC Documentation Survey located in the *PTC Customer Service Guide*.

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

- What's New in CADD5 Release 12
- Web Sites
- Accessing Open or Resolved Issues
- Postinstallation Considerations
- CADD5 and Optegra Compatibility
- Supported Compilers
- Supported Operating Systems
- Supported Patches
- CORBA Naming Service
- Executing the DBMS Process on the SGI Platform
- Supported Oracle Versions — UNIX

What's New in CADD5 5i Release 12

You can now view the What's New 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 12. The value of `<nn>` is replaced by the current release number. The variable is set as follows:

```
setenv CADD5_SHOW_WHATS_NEW12 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 Online Support Applications.

To access the search tool, you must have an account with PTC. To open an account go to <http://www.ptc.com>, select `support`, select `Sign-up Online`, or call PTC Customer Service. For details on PTC customer services 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 CADD5i for Release 12 works only with Optegra 6 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 |
|-----------------|-------------------------|--------------------------|--------------------------|------------------------------|
| Compaq Alfa | Compaq Tru64 UNIX v4.0E | V5.8-009 | V6.2-024 | V5.3-189 |
| HP PA-RISC | HP-UX 11.00 | A.11.01.02 | aC++/A03.15 | B.11.01.01 |
| IBM RS6000 | AIX 4.3.3 | 3.6.6.0 | 3.6.6.0 | 6.1.0.0 |
| SGI MIPS | IRIX 6.5 (32 bit) | 7.2.1.2m (-n32 MIPS4) | 7.2.1.2m (-n32 MIPS4) | 7.2.1.2m (-n32 MIPS4) |
| Sun SPARC | Solaris 2.6 H/W 5/98 | 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

CADDS supports the following operating systems and window managers.

| Platforms | Operating System Version and Window Manager |
|------------------|--|
| Compaq Alpha | Compaq Tru64 UNIX 4.0E, 4.0F |
| HP PA-RISC | HP-UX 11, HP-UX 11i |
| IBM RS6000 | AIX 4.3.3 |
| SGI MIPS | IRIX 6.5 |
| Sun SPARC | Solaris 2.6 May 1998, Solaris 7, Solaris 8 |
| Intel | Windows NT 4.0 (Service Pack 4, 5, and 6a), Windows 2000 |

Use the command `uname -a` to find out 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, as of March 2001, of the operating system patch bundles that must be installed before you run CADDS 5i Release 12 datecode 2001100.

| Operating Systems | Recommended Patch Bundles | Specific Patches Required |
|--------------------------|--|---|
| Solaris 2.6 HW 5/98 | Recommended Patch Cluster January 29, 2001 y2000_ALL Patch Cluster January 05, 2001 | Creator 3D 105360-36, 105361-11 Elite 3D 105361-11, 105363-32 Expert 3D 108788-06 OpenGL 1.1.1 106022-09 OpenGL 1.1.2 106735-18 OpenGL 1.2 108131-15 OpenGL 1.2.1 109543-10 |

| Operating Systems | Recommended Patch Bundles | Specific Patches Required |
|--------------------------|---|---|
| Solaris 7 | Recommended Patch Cluster January 30, 2001 | Creator 3D 106145-19, 106147-06, 106148-12 Elite 3D 106144-21, 106147-06, 106148-12 Expert 3D 108787-06 OpenGL 1.1.2 107104-13 OpenGL 1.2 108131-15 OpenGL 1.2 108132-15 OpenGL 1.2.1 109543-10 OpenGL 1.2.1 109544-10 |
| Solaris 8 | Recommended Patch Cluster January 26, 2001 | Creator 3D 108605-12 Elite 3D 108604-11 Expert 3D 108576-12 OpenGL 1.1.2 107104-13 OpenGL 1.2 108131-15 OpenGL 1.2 108132-15 OpenGL 1.2.1 109543-10 OpenGL 1.2.1 109544-10 |
| Solaris 8 HW 10/00 | | OpenGL 1.1.2 107104-13 OpenGL 1.2 108131-15 OpenGL 1.2 108132-15 OpenGL 1.2.1 109543-10 OpenGL 1.2.1 109544-10 |

| Operating Systems | Recommended Patch Bundles | Specific Patches Required |
|-------------------|--|--|
| HP-UX | <p>HP-UX 11.00</p> <hr/> <p>HP-UX 11.00i</p> | <p>B6268AA B.11.00.03 Graphics and Technical Computing Software HPUXEng64RT B.11.00.01 English HP-UX 64-bit Runtime Environment QPK1100 B.11.00.51.01 Quality Pack for HP-UX 11.00 (December 2000) UXCoreMedia B.11.00.01 HP-UX Media Kit (Reference Only. See Description) XSWGR1100 B.11.00.47.08 General Release Patches, November 1999 (ACE) XSWHWCR1100 B.11.00.49.3 HP-UX Hardware Enablement and Critical Patches, June 2000 Y2K-1100 B.11.00.B0315 HP-UX Core OS Year 2000 Patch Bundle</p> <p>PHCO_21267 1.0 cumulative SAM/ObAM patch PHCO_22314 1.0 libc cumulative patch PHCO_22453 1.0 fsck_vxfs(1M) cumulative patch PHKL_22432 1.0 VxFS 3.1 icache cumulative patch PHKL_22589 1.0 LOFS, select(), IDS/9000 and umount race fix PHKL_22744 1.0 VM, async, hyperfabric, ttrace, buffer cache PHKL_23002 1.0 pthread, thread hang, nfs/tcp panic, chang PHNE_22086 1.0 Streams Pty cumulative patch PHSS_21462 1.0 3D Common Runtime patch PHSS_21470 1.0 OpenGL 1.1 Runtime patch PHSS_21982 1.0 Xserver cumulative patch PHSS_22341 1.0 CDE Runtime NOV2000 Periodic Patch PHSS_22543 1.0 HP aC++ -AA runtime libraries (aCC A.03.30)</p> <hr/> <p>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</p> |
| AIX | AIX 4.3.3 | Update to 4.3.3.0-02 |

| Operating Systems | Recommended Patch Bundles | Specific Patches Required |
|--------------------------|-------------------------------------|--|
| Compaq Tru64 UNIX | Compaq Tru64 UNIX V4.0E (Rev. 1091) | CXXREDIST621 Compaq C++ Run-Time Library Redistribution kit (ftp://ftp.compaq.com/pub/products/C-CXX/tru64/cxx/CXXREDIST621V01.tar) |
| | Compaq Tru64 UNIX V4.0F (Rev. 1229) | CXXREDIST621 Compaq C++ Run-Time Library Redistribution kit (ftp://ftp.compaq.com/pub/products/C-CXX/tru64/cxx/CXXREDIST621V01.tar) |
| IRIX | IRIX 6.5 | 6.5.9 Maintenance Release |
| Windows NT | Windows NT 4.0 | Service Pack 4, 5 or 6a |

CORBA Naming Service

The CORBA naming service for ATB, EPD Enabled CADD5 5i, CADD55 Java Server (AEC Hull Classification Java Tree) and WGM has changed from Orbix to omniORB.

Please note: PTC is using omniORB 3.0.0, a free software component covered by the GNU Public License and Lesser GNU Public license, in CADD5 5i Release 12. The source code snapshot for omniORB is available for download from the CADD5 5i omniORB reference page, <http://www.ptc.com/cgi/cs/doc/document.pl?product=CC5>. For more details about omniORB, see <http://www.uk.research.att.com/omniORB/omniORB.html>

XML Parser

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

PLOT DOT Command in the Explicit Environment

Using the PLOT DOT Command

Before using PLOT DOT, first establish the following link at the root directory. Otherwise, PLOT DOT does not function.

```
cd /  
ln -s /usr/apl/cadds /cadds
```

Raster Mode Operations not Supported

The Formtek library support has been discontinued for SGI platform running IRIX 6.5 and later. Therefore, you cannot use the following raster mode operations in CADD5 5i Release 12 on the SGI platform running IRIX 6.5 and later.

- ACTIVATE RASTER
- COMMIT RASTER
- CONVERT RASTER
- COPY RASTER
- DELETE RASTER
- ECHO RASTER
- ERASE RASTER
- FILE RASTER
- MOVE RASTER
- SELECT RASTER
- UNDO RASTER

Please note: You can still use the PLOT DOT command to generate a raster file, but you cannot use the generated raster file for any of the operations listed earlier. The PLOT DOT command can no longer be used for merging active image with raster.

Executing the DBMS Process on the SGI Platform

To execute the DBMS process on an SGI machine, an Oracle N32 shared library, `libclntshcdk.so.8.0`, is required. This library is packaged with Optegra SLIC and is available in the `$EDM_HOME/oracle/lib32` directory. Copy this library to `$ORACLE_HOME/lib32` and set `LD_LIBRARYN32_PATH` to `$ORACLE_HOME/lib32`.

Follow the same procedure for executing the DBMS on an SGI machine that does not have Oracle on it.

Mechanical Simulation Package (MSP)

The Mechanical Simulation Package (MSP) is not available on the SGI platform.

Supported Oracle Versions — UNIX

For this CADD5 release, Oracle 8i Release 3 (8.1.7) is supported on all platforms.

Please note: On SGI platform Oracle version 8.1.6 is supported.

This chapter provides tips for working efficiently in this release of CADD5 in the following areas:

- General CADD5
- Parametric Modeling
- Databases
- CAMU
- Manufacturing
- Explicit Harness Design
- CADD5 on Windows NT

General CADD5

CVact Tool on SGI IRIX 6.5

The CVact tool is not available on the SGI/IRIX 6.5 N32 (New 32) platform. Only the CVact runtime environment, and not the CVact interactive design tool, is supported on SGI IRIX 6.5. You can design your CVact menus on any of the other UNIX platforms and then compile and use these CVact menus with CADD5 on the SGI platform.

CVMAC

CADD5 requires the `/usr/shlib/libm_c32.so` installed on the Compaq Tru64 UNIX platform.

Parametric Modeling

Sketcher

- While converting a DesignView Profile in Sketcher, you cannot open and edit a DesignView Profile if a sketch exists in the Part Library with the same name as that of the DesignView profile.
- While importing an ellipse from the Explicit environment into Sketcher, the profile is created as a nspline and not as an ellipse.
- When you import a Design View Profile into the Sketcher environment, the dimensions created between the filleted/chamfered corners are lost and they appear with a value 0.0 in Sketcher.

Databases

Advanced Structural Modeling (ASM)

If an ASM object is related to a reference geometry from a viewed-in part, a property PTNAMELIST is created on a scalar entity in order to maintain the connection. If you run CHECK DBASE on this part, the PTNAMELIST property is lost and part can become unusable.

CAMU

The following tips will be useful when working with assemblies.

- In the Parametric environment, you can select a viewed component to specify constraints. If the color of the selected component and that of the viewed layer is the same, then the selected component is highlighted as a dashed thick line.
- Use the following environment variables to define the maximum height and width (in pixels) of an assembly tree in the Assembly Structure window. For example,

```
setenv CV_ASSEMBLY_TREE_HEIGHT '32000'  
setenv CV_ASSEMBLY_TREE_WIDTH '32000'
```

If a large tree extends outside these boundaries, you may be unable to scroll the view to see some nodes. To solve this problem, increase the height or width of the assembly tree.

Please note: The values specified for these variables affect the size and behavior of the scroll bars. Increase or decrease the height and width of 8000 increments (approximately 8 screen heights). The minimum value you can use is 8000.

- Use the **Save File** option from the **PLOT ASSYTREE** command in the Explicit environment and the **PLOT TREE ASSEMBLY** from the Parametric environment to specify the full path name of the output CGM file. If you do not specify the **Save File** and the **Device** option, then a file named `tree.cgm` is created automatically your CADDs create directory. If you specify the device option without the **Save File** option then the `tree.cgm` file is created in the directory specified by the environment variable `CV_AW_TMP_DIR`. In both cases any existing `tree.cgm` file is overwritten.
- The default value that needs to be specified for the following modifiers when you use the **PLOT TREE** and **PLOT ASSYTREE** commands are:
`CHARHEIGHT` - default value is 5.
`NODEOFFSET` - default value is 0.1.
- When you perform the **HLR** operation on a large CADDs part, the graphics do not appear correctly. The bold lines appear dashed. Use the **REPAINT** command after carrying out all the operations on the large part, to restore the graphics correctly.

Manufacturing

CVNC

When you switch between the Explicit, Parametric, and CVNC environments, the state of the One View, All Views, and Draw Only options on the layer bar is retained across environments.

Contact Point Output

You can now use the PROFILE5 and SWARFCUT commands in addition to the SURFCUT3, SURFCUT5, and ZPROF3 commands for contact point output generation.

Variable Stock for PROFILE3

The PROFILE3 command now supports variable stock, that is, you can specify different stock values for entities along a profile when using the PROFILE3 command.

Collision Support for PROFILE3 and PROFILE5

PROFILE5 and PROFILE3 now have collision detection support.

PROFILE5 Command

When selecting collision surfaces, ensure that the top faces are also chosen. Otherwise, the PROFILE5 command can behave unpredictably. For example, when choosing a cylinder as the top face, ensure that the top lid is also chosen. Otherwise, the tool can dip into the cylinder.

You can encounter problems with collision when you use the modifiers THICK and DEPTH with the PROFILE5 command. The problem could be due to the depth value that you have specified where the tool can pass below the offset collision surface generated. Increase the tool length or decrease the depth by small values to generate a good tool path.

Collision detection can fail, if there is only a single straight line segment between collision surfaces. Specify a small value for the COLDIST modifier for collision detection to work correctly.

ROTATE Command

The ROTATE command has been enhanced to support multiple rotations in 5-axis.

DEFDRIL5 REORIENT Command

You can use only the following sequence with DEFDRIL5 REORIENT:
CLEAR INMOTION APPROACH NORMAL RETRACT NORMAL

Tool Path Animation

In CVNC, CADD5 no longer stops responding when you press the ESC key to stop tool path animation and then click the middle mouse button to display the dynamic mouse manipulation menu. CADD5 automatically exits the stopped state because you have pressed the ESC key. To launch the dynamic mouse manipulation menu, you must click the middle mouse button again.

Explicit Harness Design

Harness Design Bill of Materials

The text limit of the Characters Type field in the Harness Design bill of material for PTNO (part number of respective component) is extended from 20 characters to 254 characters. This increase in text limit is useful for extracting the cost of files such as:

- Concost
- Pincost
- Clipcost
- Cablecost
- Splicecost
- Jakcetstypes

RUN CVMAC Command

If you use the RUN CVMAC CVAEC.HD.CVM.VERHARN command in the Harness Design environment, the following message appears:

```
"%% Fatal error in FINDFILE statement 71 ** ERROR CALL  
0022 **"
```

To avoid this error, set the following variable in your .caddsrc-local file:

```
setenv CVMAC_CALLF_OBJ '/cadd5/obj/harness/adjust/'
```

The CVMAC_CALLF_OBJ must be set to the path where the CALLF binaries exist. It can be set to multiple paths, separated by colons. For example:

```
setenv  
CVMAC_CALLF_OBJ '/users/xyz/myobjs:/usr1/mraj/cvmac/bin:/  
cadd5/data/cvaec/hvac/bin'
```

CADD5 on Windows NT

CVNC - NCVERIFY Command

The NCVERIFY command now works on Windows NT. This command allows you to process and display the data collected with the CVNC OUTPUT VERIFY command.

Functionality Supported on Windows NT

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

Parametric Modeling

- Features
- Physical Properties
- Table Driven Design

- Sheet Metal Design
- ISD (Interactive Surface Design)
- History Window Display Tool

Explicit Modeling

- Wireframe
- Solids detailing
- NURBS
- Drafting and Dimensioning
- Hidden Line Removal (HLR)
- Sectioning
- Physical Properties
- CADDShade II
- CVNC M2
- CVNC M3
- CVMAC execution and compilation
- Basic Shading
- Image Design
- CGM plot filters
- Execute files
- IGES

Assembly

- Concurrent Assembly Mock-Up (CAMU)
- CAMU — using mapping tables between UNIX and Windows NT
- Support of Windows NT client running on UNIX ODB_Server
 - Single User
 - Multiuser
- Activation of Assemblies on:
 - UNIX file system
 - Windows NT file system
- Parametric Multipart Design

CVNC

- T2, M2, M3, M3, M5
- CVGP11 Support

General

- OpenGL Graphics Support
- Customizer
- STEP
- Cadds2pvs
- Cadds2vrml
- CADD5 5 ISSM (in CADD5 Programming)
- Spaceball

CVact

Runtime on Windows NT — Menus designed and customized on UNIX can now run on Windows NT.

Dynamic dlls to Support

- CV-DORS
- CADD5 5i ISSM
- CVMAC I/F and CALLF routines

CV-DORS (external to CADD5)

Standalone VDA-FS to CADD5

AEC Shipbuilding

- ASM (Advance Structural Modeling)
- Piping
- Piping Isometrics

General Installation Issues

- Automatic startup of Exceed
- Improve startup of CADD5
- Improved features for Install and Daemon startup

Networked Support Drive

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

- NFS Maestro from Hummingbird
- NuTCRACKER NFS client from Data Focus
- WRQ Reflection from WRQ
- Disk Access from Intergraph
- Netware 5.0 from Novell

To map a Windows NT drive on a UNIX machine, the following product has been validated.

- Disk Share from Intergraph

Considerations

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

- Parametric Modeling
- Assembly
- The MARK CHANGES command now highlights the surrogate entities of the components that have been unviewed for a CAMU Adrawing.
- ATB Enabled CADD5 5i

Parametric Modeling

Sketcher

- When you duplicate a profile or entity that has fillets or chamfers on it using the linear or rotational pattern, all the chamfers or fillets in the profile are lost in the new geometry.
- When you duplicate entities using either a linear pattern or a rotational pattern, a construction entity is created depending on the type of pattern selected, without any constraints. If you drag one of the corners, the pattern changes.

To avoid changes in the pattern, constrain the construction entity with the entity that is duplicated.

Assembly

MARK CHANGES Command

The MARK CHANGES command now highlights the surrogate entities of the components that have been unviewed for a CAMU Adrawing.

Manufacture

PROFILE5 Command

- During collision detection, cylinders that have been created as surfaces of revolution behave more predictably as collision surfaces than cylinders created by other options.
- The PROFILE5 command does not support COLGRPS.

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 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 ProE TIM. You can also verify and update the ProE TIM part when the source CADD5 part is active.

