Quick-start & Troubleshooting Installation Guide For Dynamic link

This Installation tutorial steps you through the process steps unique to the Demonstration and Evaluation of ADS Dynamic Link to Cadence for setting up to simulate a circuit using components from the ADS Dynamic Link library. This is in addition to the Tutorial given in the RFIC Dynamic Link Users Guide published by Agilent and found in the ADS documentation.

Why a Quick Installation Guide For Dynamic Link

Getting a properly working ADS/DL installation. The install process is dependent on the existing Cadence infrastructure, which is heavily customized by each target customer. Because of this customization, it is sometimes difficult for customers to get an ADS/DL installation to work the first time.

Introduction	2
Pre-Installation	
Quick Installation Guide	3
System Requirements	
Software Requirements	
Licenses	
Installation Procedure And Configuration User Account.	4
Create a License File for ADS	4
Enable FLEXIm <i>lmgrd</i> on your Server Machine	4
Access To Cadence Libraries With ADS Simulation View	5
Cadence and Dynamic Link Directory Structure	5
The Config Directory	
Environment Variables (Relevant To Dynamic Link)	7
A Dynamic Link Example:	8
Setting up the PowerAmp example	
The Virtuoso schematic editing window will appear: examples PowerAmp Schematic	9
Now you are ready to perform a simulation	11
Installation Test (idfenv) Is Cadence Ready For The ADS RFIC Dynamic Link?	
Installation Check list	
Known problems & Solutions:	13
Cadence Pull Down Menu Disappears from ADS Schematic	
<u>Failed to open the Cadence Schematic</u>	
Failed to invoke ADS license	
Cannot add instance of Cellview to ADS schematic	
<u>Dangling idfmp processes when DFII crashes</u>	
Can not run hpeesofsim –help	14
DC Back-Annotation to Cadence failure.	14
Trouble Shooting:	15
Record A Terminal Session and capture problem with Dynamic Link	16
<u>Installation FAQ's:</u>	
<u>References</u>	18
Contact Agilent EEsof Technical Support	18
Products And Services Information	18

Introduction

This Installation guide steps you through the process steps unique to the Demonstration and Evaluation of ADS Dynamic Link to Cadence for setting up to simulate a circuit using components from the ADS Dynamic Link library. This is in addition to the Tutorial given in the RFIC Dynamic Link Users Guide published by Agilent and found in the ADS documentation.

Pre-Installation

Please read the guidelines listed in Quick Installation Guide below, this will tell you how much RAM, disk space and other requirements needed to run the Dynamic Link to Cadence.

RFIC Dynamic Link Use Model

The RFIC Dynamic Link use-model coincides with that of both Cadence and ADS, with only a few exceptions. The Affirma Analog Circuit design environment user interface is replaced by ADS' users interface. The Affirma features that are not directly replaced by ADS are provided on the *ArtistUtilities* pull-down menu in the Cadence Virtuoso Schematic window.

NOTE: If the *ArtistUtilities* pull-down menu does not appear in the Cadence Virtuoso Schematic window, choose **Tools** > **ADS** in the Cadence schematic window.

Usage assumes basic familiarity with the Cadence's Virtuoso schematic capture and *Affirma Analog Circuit Design Environment*, as well as basic familiarity with design and simulation in ADS.

Quick Installation Guide

System Requirements

Minimum Hardware, software and licenses requirements

Minimum hardware requirements RFIC Dynamic Link

RAM 256MBSwap Space 500MB

• Hard Disk 20MB free disk space for Installation

Software Requirements

- RFIC Dynamic Link version 2002 requires ADS 2002
- Operational cadence DFII environment

Dynamic Link is supported by Cadence DFII versions 4.4.3, 4.4.5, and 4.4.6. And all UNIX operating system:

- AIX 4.4.3,
- SunOS 5.6, 7, 8
- HP-UX 10.2, 11

NOTE: Cadence DFII 4.4.5,6 requires HP-UX 11 and 4.4.6 requires SunOS 5.8

Licenses

You need the standard Advanced Design System licenses, with the addition of:

RFIC Dynamic Link License

• trans_idf (for ADS 2002)

Cadence Licenses

- OASIS Simulation Interface. (OASIS License Feature can be share)
- 34510 AFFIRMA. (AFFIRMA License Feature is a one for one)
- 300 Virtuoso, layout editor (if using layout)

The RFIC Dynamic Link supports the dynamic interaction between the ADS 2002 and the DFII environments only between processes local to a single workstation. The workstation used to run DFII is also the machine that will start the ADS interface through dynamic link. Please make sure that your machine has access to the two environments and can acquire the necessary ADS and Cadence licenses. Remote simulations with simulators from each of the particular environments (either ADS or DFII) have to be started from their own interface.

Installation Procedure And Configuration User Account

Obtain your FLEXLm codewords (Codewords can be requested in the Web at: http://eesof.tm.agilent.com/forms/codereqform.html

Become a *root* user
Insert the CD-ROM (1)
Mount your CD-ROM drive
#mount /cdrom
#cd /cdrom/UNIX
Shutdown any program that uses a lot of color (I.e. Netscape)
#./SETUP*

You are prompted to enter a full path to the directory where you would like to ADS to be installed. The default directory is /usr/local/ADS2002

EEsof Installation Manager starts. Select *Complete Installation*

(The Complete Installation includes the automatic installation of Dynamic Link, all Parts Libraries and the Online Documentation; you'll be prompted insert and mount the second disk.) #cd/

#umount /cdrom (eject cdrom, for Solaris)

NOTE: Make sure the HPEESOF_DIR SHELL environment variable is set and CDS INST DIR points to the Cadence DFII root directory.

After Installation is complete you will need to configure the Cadence Directory (Be sure you have write permission in the Cadence root directory \$CDS INST DIR)

- Run \$HPEESOF DIR/bin/idfConfigCadence
- Use \$HPEESOF DIR/bin/idfConfigCadence –h to display the help menu
- Use \$HPEESOF_DIR/bin/idfConfigCadence —ls to indicates if Cadence is ready for Dynamic Link

Create a License File for ADS

(Recommended location for your license.lic file is \$HPEESOF DIR/licenses/license.lic)

- Place codewords in the license.lic file
- #cd \$HPEESOF DIR/licenses/license.lic
- #chmod 555 license.lic (You may need to edit your license.lic file to correct the SERVER line (replace *unknown* with correct server name, and the VENDOR line *agileesof*)

NOTE: Verify that the required Cadence licenses are also present in your Cadence License File. (Usually found in \$CDS_INST_DIR/share/license/license.<servser_id>)

Enable FLEXIm lmgrd on your Server Machine

(the lmgrd demon (*lmgrd*) is in HPEESOF DIR/licenses/bin)

To run *lmgrd*

Change the directory to where *lmgrd* resides on the SERVER machine and execute

- \$cd \$HPEESOF DIR/licenses/bin
- \$./lmgrd -c ../license.lic

Verify available licenses, run *lmstat*

- cd \$HPEESOF DIR/licenses/bin
- ./lmutil lmstat -a -c ../license.lic | more

Access To Cadence Libraries With ADS Simulation View

Set the variable \$IDF_CDS_VERSION to have access to the following Agilent EEsof libraries: Basic, AnalogLib, and Microwave

• Edit \$HPEESOF_DIR/idf/examples/cds.lib and include the following lines

UNDEFINE analogLib UNDEFINE basic UNDEFINE microwave

DEFINE analogLib \$HPEESOF_DIR/idf/cdslib/\$IDF_CDS_VERSION/analogLib DEFINE basic \$HPEESOF_DIR/idf/cdslib/\$IDF_CDS_VERSION/basic DEFINE microwave \$HPEESOF_DIR/idf/cdslib/\$IDF_CDS_VERSION/microwave

NOTE: An easy way to introduce these is including a file with these lines at the end of your local cds.lib file.

Other user specific libraries can be added (I.e. Cadence design kits) in a similar way.

Cadence and Dynamic Link Directory Structure

The idfConfigCadence configuration script creates four and modifies one file in the Cadence IC design tree. The following four files are created:

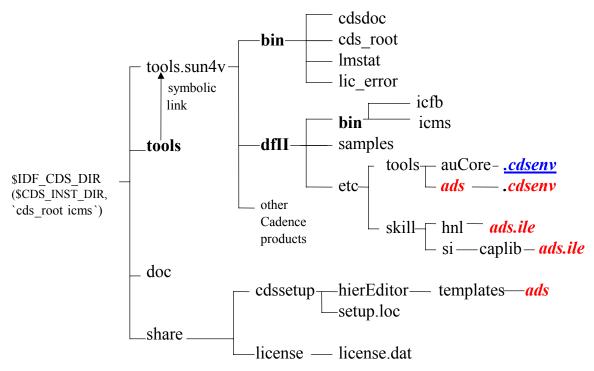
```
<Cadence Installation Dir>/tools/dfII/etc/tools/ads/.cdsenv

<Cadence Installation Dir>/share/cdssetup/hierEditor/templates/ads

<Cadence Installation Dir>/tools/dfII/etc/skill/hnl/ads.ile

<Cadence Installation Dir>/tools/dfII/etc/skill/si/caplib/ads.ile
```

A 5th file, <Cadence Installation Dir>/tools/dfII/etc/tools/auCore/.cdsenv is edited to add ADS to the Tool Filter List of Simulators.



\$IDF_CDS_DIR/tools/bin And \$IDF_CDS_DIR/tools/dfII/bin MUST BE IN THE PATH '\$HPEESOF_DIR/bin/idfConfigcadence' Creates and Updates the five Dynamic Link setup files under Cadence

The Config Directory

• \$HPEESOF DIR/idf/config/idf.cfg

Dynamic Link comes with the default configuration file Use this file to set site/user-specific options. The values in this file will be overridden by those in ./idf.cfg.

• \$HPEESOF DIR/idf/config/.cdsinit

For the ADS menu to appear, the .cdsinit file must be read.

(When using wrappers that will set your environment, you must load and update your custom wrappers). The following should be added to the .cdsinit file

loadi(strcat(getShellEnvVar("HPEESOF_DIR") "/idf/config/.cdsinit"))

Append it to or load it from the first available .cdsinit file from the list below:

- < Cadence Installation Dir>/tools/dfII/local/.cdsinit
- / cdsinit
- \$HOME/.cdsinit

Environment Variables (Relevant To Dynamic Link)

The environment variables needed are the same as for a normal installation of Cadence DFII and ADS. Be sure license file variables and paths are correct. HPEESOF_DIR must be set, Cadence tool tree must be in the search path, e.g. icms must be found by 'which icms' or 'whence icms' or 'type icms'.

The 2002 Dynamic Link installation only requires additional variables if they are in use. In i.e., the cds.lib files like IDF_CDS_VERSION in the example above. (Page 5, Access to Cadence Libraries With ADS Simulation View)

For Optional environments variables see, chapter 2-6 of the Dynamic Link 2002 Guide.

- CDS_INST_DIR the Cadence installation root directory. Some Cadence users define this variable and others don't. Depends on the Cadence DFII version used. The variable was required in DFII 4.4.3, but it is ignore by later Cadence startup scripts.
- HPEESOF DIR ADS installation root directory.
- PATH the executables search path must include:

```
$HPEESOF_DIR/bin for ADS and for Cadence 

<Cadence_install_dir>/tools/bin and 

<Cadence_install_dir>/tools/dfII/bin.
```

- LM_LICENSE_FILE is **only** required if ADS license.lic is not under \$HPEESOF_DIR/licenses/ or AGILEESOF_LICENSE_FILE is not define. And Cadence license file is not defined in any of the following locations:
 - -\$CDS LIC FILE
 - -<Cadence install dir>/share/license/clients
 - -<Cadence install dir>/share/license/license.dat

NOTE: *If you're using the C-shell, change export to setenv and remove the equal sign (=).*

A Dynamic Link Example:

The following PowerAmp example steps you through a circuit from the Dynamic Link *analogLib* library.

Setting up the PowerAmp example

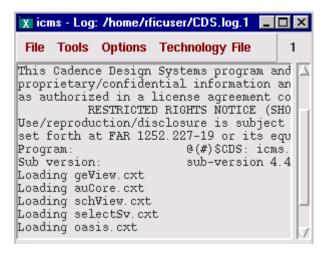
From any directory enter:

\$cp -r \$HPEESOF_DIR/idf/examples ./

\$cd examples

Type icms& or icfb& or msfb& at the UNIX prompt

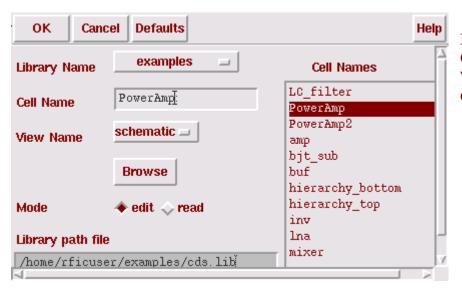
In a few seconds the Command Interpreter Window (CIW). Will appear.



From the **CIW** GUI choose

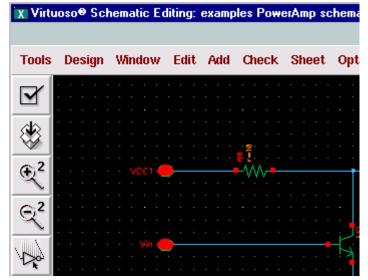
File > Open (File Open Gui appears)

Select the following:



Library Name > Examples Cell Name > PowerAmp View Name > schematic Click OK

The Virtuoso schematic editing window will appear: examples PowerAmp Schematic

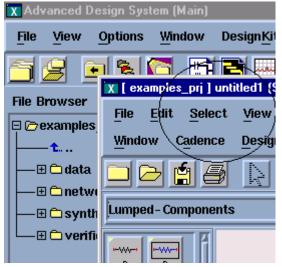


To open The ADS Design Main Window

From the Tools Pull Down menu select: Tools > ADS

In a moment the ADS (Main) window Will appear. The examples _prj will open automatically.

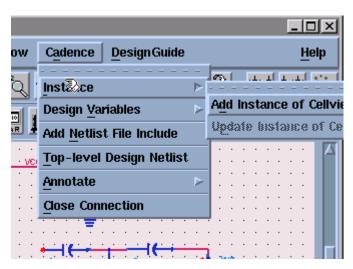
The Blank DS schematic should appear with the Cadence menu, and it is automatically title "untitled1"



To open The **PowerAmp Design**

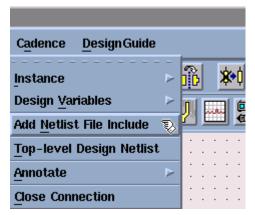
In the schematic window: Select File > Open Design... An Open design:1 GUI pops Select > select PowerAmp test.dsn

OK the GUI to include **the PowerAmp_test.dsn** schematic in the ADS Window



To add a symbol of the Cadence Cellview
From the Cadence pull down menu
Select the following from GUI:
Library Name > examples
Cell Name > PowerAmp
View Name > schematic
OK

An instance of the symbol is attached to the cursor. With the **L**eft **M**ouse **Bu**tton place the symbol in the ADS schematic.



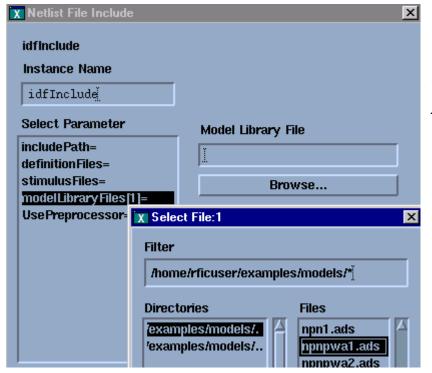
Now you are ready to add the **Model Files**

Select Cadence > Add Netlist Include

An instance of the Idfinclude icon is attached to the cursor. Place it and double click.

The Netlist File Include Gui pops

Select modelLibraryFiles[1]= Click the Browse...



The Netlist File Include GUI Pops Highlight modelLibraryFiles[1]= And click Browse...

Navigate to the models directory your directory/examples/models

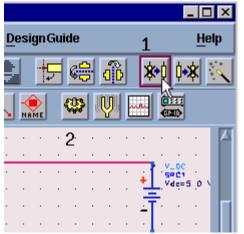
Locate the **npnpwa1.ads** model **OK**

An Information Message appears, indicating a new path has been added to the include path list

OK the dialogue Box

Notice that the Model Library File field contains the **npnpwa1.ads** Click **Apply** to add the model

Click the Add to add the modelLibraryFiles[2]=
And **Browse**... again to locate the second model npnpwa2.ads model file
Click **Apply** to add the npnpwa2.ads model **OK** the Gui



Now you are ready to perform a simulation

Now you are ready to perform a simulation

- 1. With the **R**ight **M**ouse **B**utton select the DC component and in the ADS schematic window select the Activate Components icon to activate the DC component
- 2. Select the Simulate icon to run a simulation. A simulation dialog box appears promptly, close window. **Window** > **Close Window**

After the simulation is complete, a Data display window appears

3. To Display the DC nodes on the Cadence Schematic:

Select the PowerAmp Symbol in ADS. And choose Cadence > Annotate > Annotate DC Solution to Selected Cellview.

For detailed tutorial steps about the process of simulating circuits using The Dynamic Link, please refer to the RFIC Dynamic Link User's Guide, chapter 3.

For additional RFIC Dynamic Link for Cadence examples, please see refer to http://eesof.tm.agilent.com/applications/latest.html#rfic dynamic link

NOTE: We advise to be fully versed in the PowerAmp example above, before visiting the additional examples.

Installation Test (*idfenv***)** Is Cadence Ready For The ADS RFIC Dynamic Link? To Output DL-related UNIX environment variables, run *idfenv*

- Run this script *idfenv* in a UNIX window
- Then type the following command in Cadence CIW to compare environment outside and inside Cadence: system("\$HPEESOF_DIR/bin/idfenv")

Installation Check list

After a Proper Dynamic Link installation, the following files and directory structure should exist:

```
$HPEESOF_DIR/idf/ael/
                                        (Compiled AEL files)
$HPEESOF DIR/idf/cdslib/4.4.6/analogLib/
                                                (Cadence version specific Libraries: analogLib, artist, basic,
                                                microwave)
(Same Directory $HPEESOF DIR/idf/cdslib/ Structure for: 4.4.3, and 4.4.5,)
$HPEESOF DIR/idf/config/
                                                (DL Configuration Files, including the .cdsinit file)
$HPEESOF DIR/idf/examples/
                                                 (Libraries, Projects, ADS models and examples files of: .cdsinit,
                                                 cds.lib, idf.cfg)
$HPEESOF DIR/idf/skill/4.4.6/ads.ini
                                                (DL/cadence Version Specific)
$HPEESOF DIR/idf/skill/4.4.6/ads.al
                                                (DL/Cadence Skill Files)
$HPEESOF DIR/idf/skill/4.4.6/ads.cxt
                                                (DL/Cadence Context File)
(Same Directory $HPEESOF DIR/idf/skill/ Structure for: 4.4.3, and 4.4.5,)
$HPEESOF DIR/idf/components/
                                                (nport s-parameter)
$HPEESOF DIR/bin/idf
$HPEESOF DIR/bin/idfmp
$HPEESOF DIR/bin/idfConfigCadence
$HPEESOF DIR/bin/idfenv
```

Known problems & Solutions:

Cadence Pull Down Menu Disappears from ADS Schematic

To add the **ADS** menu in the Cadence, load Dynamic Link's. cdsinit in the right place. Cadence will always read the first .cdsinit file found in this order

- \$CDS INST DIR/tools/dfII/local/.cdsinit
- ./ .cdsinit
- \$HOME/.cdsinit

If the Menu still is not visible add a *loadi()* call in the .cdsinit \$loadi(strcat(getShellEnvVar("HPEESOF DIR")")"/idf/Config/.cdsinit"))

Failed to open the Cadence Schematic

When opening a new schematic in Cadence it is read only:

Locks may cause the problem. Maybe you copied the Design from another user while he opened his design. To release any lock files in DFII 4.4.5 or later, please do the following:

In your UNIX prompt, change the directory to your working library (library in which the newly copied cell resides)

- \$clsAdminTool
- \$ ale .
- \$are.

The command "ale." lists the cells in the current library that are presently locked. "." refers to the current working library/directory. The "are." Command releases the Locks.

Failed to invoke ADS license

A license validation failed error message in the CIW and an Agilent License Error Box will appear if ADS fails to invoke.

NOTE: **LM_LICENSE_FILE** is not required if \$HPEESOF_DIR/licenses/license.lic is valid

• \$ls -l \$HPEESOF_DIR/licenses/license.lic

Dynamic Link requires the FEATURE trans_idf in the ADS license.lic file

• \$grep -i idf \$HPEESOF_DIR/licenses/license.lic (FEATURE trans_idf agilenteesof 2.0 01-jul-2002 uncounted HOSTID=DEMO \)

Cannot add instance of Cellview to ADS schematic

When trying to run the Power Amplifier example, ADS opens fine, but cannot add instance of Cellview to ADS schematic. Get the following error:

(de_iteminfo_new_instance) Failed to generate the annotation

To generate the annotation, ADS needs to create a dummy symbol file library>_<cell>_<view>.dsn. This dummy symbol is created with the idfSymbol component. If the idfSymbol.dsn or the idfInclude.dsn files are not located under \$HPEESOF DIR/circuit/symbols, the user gets the message.

Once these files are installed, the component instantiates correctly, and the simulation runs fine.

Dangling idfmp processes when DFII crashes

When the Cadence DFII crashes and IDF is running, the IDF process "idfmp" is still running.

List the relevant processes with:

- ps -ef | grep idf (use "ps -ax" on sunOS)
- Then "kill -9 <pid>" for all the IDF related processes.

Can not run hpeesofsim -help

The *hpeesofsim* command is available to list available devices and commands, that are set in the \$HPEESOF_DIR/bin/bootscript.sh script. Before attempting to use the hpeesofsim command, you should source the *bootscript.sh* file using one of the following commands:

- . \$HPEESOF DIR/bin/bootscript.sh (If using the Korn shell)
- sh; . \$HPEESOF DIR/bin/bootscript.sh (If using the C shell)

DC Back-Annotation to Cadence failure

With a successful DC Simulation in ADS with Dynamic Link. And select Annotate DC Solution to Selected Cellview. Error -No data is available DC Back-Annotation failed

Cadence adds a parameter to the CDF called Name Prefix with a default value of "X". The user never sees this default prefix on his Cadence schematic, this causes ADS netlist to be out of sync with the Cadence schematic.

Check the CDF for EACH level of hierarchy and remove the value "X" from the Name Prefix parameter.

Once these are done, re-run the DC simulation, should be able to back annotate to Cadence.

NOTE: The freeze parameter should be set to FALSE on the idfSymbol component for ADS to regenerate a Cadence netlist. The idfSymbol component is located on the design page created when the Cadence schematic is instantiated into ADS schematic.

To learn more about the use of "Freeze Mode" to simulate a Design in ADS standalone, see Chapter 9-12 of the Dynamic Link 2002 Guide.

Trouble Shooting:

All errors, warnings, and other messages are directed to the Cadence CIW. All Error messages are also logged in the idf.log file. (Only if debug turned on).

Some known problems and solutions are listed in the following section. You may find this information helpful in determining how to resolve a particular problem however, if you're unable to resolve a problem with the RFIC Dynamic Link using the information provided, contact Agilent EEsof-EDA customer support.

- Obtain Dynamic Link Environment. Run idfenv
- Is \$HPEESOF_DIR/bin in your \$PATH?
- Is icms, icfb in your \$PATH?
- ADS License Validation.
 Is your ADS *license.lic* file in the default \$HPEESOF_DIR/licenses/ directory or is it set in \$LM LICENSE FILE?
- Your PATH and LM_LICENSE_FILE should be set in ~/.profile, ~/.kshrc or other sourced scripts
- Cadence License Validation:

```
$CDS_LIC_FILE <Cadence_install_dir>/share/license/clients
$LM_LICENSE_FILE <Cadence_install_dir>/share license/license.lic
```

The Cadence License File should contain the following features:

OASIS_Simulation_Interface (Dynamic Link can not netlist without an OASIS license

```
OASIS_Simulation_Interface License 34510 300 (for layout)
```

• Does \$HPEESOF_DIR/idf/config/.cdsinit exist?

```
Is $HPEESOF_DIR/idf/config/.cdsinit loaded in 
<Cadence_installation_directory>/tools/dfII/local/.cdsinit?
```

Record A Terminal Session and capture problem with Dynamic Link

Dynamic Link manuals for setup assume the simplest setup for Cadence and Dynamic Link. There are customers that have extremely customized setups for Cadence, and then try to integrate Dynamic Link into that setup. There are problems ranges from not setting up the environment variables to using the wrong license, to using the wrong version of ADS. To save time trying to debug the customer's files, follow these instructions, to record a terminal session and **capture problems with Dynamic Link:**

```
(From UNIX prompt type..)
script idf.script
Setup the Cadence and ADS variables, as you usually do in your company.
export IDF DEBUG MODE=TRUE
                                                                 (Korn Shell)
IDF DEBUG MODE=TRUE; export IDF DEBUG MODE
                                                                (Bourne Shell)
setenv IDF DEBUG MODE TRUE
                                                                (C-Shell)
idfenv
                                      (Get DL-related environment outside of Cadence)
cp -r $HPEESOF DIR/idf/examples.
cd examples
                                      (To use EEsof's ./.cdsinit, cds.lib)
setenv IDF DEBUG MODE TRUE
                                       (for csh)
export IDF DEBUG MODE=TRUE
                                      (for ksh)
icms &
                                       (Or any other Cadence tool)
From CIW, select Open>File "examples>PowerAmp", and Open ADS From the Schematic
(Run the PowerAmp example, till problem occurs)
Enter the following command in CIW:
```

(Does it match that of last *idfenv*?)

The customer then attaches the **idf.script** file, (which is out put of script) to email and sends it in to customer support.

_

system("idfEnv")

cat idf.log cat ~/CDS.log

exit

(From UNIX prompt)

Installation FAQ's:

- How can I change which ADS project is opened when I start up ADS from within Cadence? Set it with the IDF_ADS_PROJ_DIR environment variable located in your ./idf.cfg file.
- I Can't find cds_root to install Dynamic Link
 When the customer runs the Dynamic Link ".sh" installation file, he gets an error message that
 the program can't find cds_root variable.

Make sure that before running the installation script, you have defined: \$HPEESOF_DIR and \$PATH must include \$HPEESOF_DIR/bin:\$HPEESOF_DIR/idf/bin:\$CDS_INST_DIR/tools/bin: \$CDS_INST_DIR/tools/dfii/bin

• ADS flashes when running Dynamic Link
When ADS is run from Cadence, ADS looses colors and starts flashing as it comes up.

The screen was flashing possibly because the workstation ran out of colors. Stop color intensive programs like, e.g., Netscape when running DL or use them with their own private color map. (netscape –install). Try one or more of the following:

Set HPEESOF_COLORMAP=private in \$HOME/hpeesof/config/hpeesof.cfg or /usr/hpeesof/config/hpeesof.cfg

export CDS_USE_PRIVATE_CMAP=true export CDS_NUM_USER_COLOR=16 in \$HOME/.profile, logout, then login again \$HOME/.kshrc (run the command \`. \$HOME/.profile).

setenv CDS_USE_PRIVATE_CMAP True setenv CDS_NUM_USER_COLOR 16 in \$HOME/.cshrc, logout, then login again \$HOME/.cshrc (run the command \`source \$HOME/.cshrc').

Restart DL after exiting all other applications.

Can I keep previous versions of ADS Dynamic Link?
 Yes, HHPEESOF_DIR needs to be defined for previous versions
 The \$CDS INST DIR does not need to be reconfigured for each installation

Previous ADS Dynamic Link Versions do required license interface: Idf_C_interface

References

Agilent EEsof EDA Product Documentation

http://eesof.tm.aqilent.com/docs/

Advanced Design System 2002 (ADS2002) Product Documentation

http://eesof.viewmark.com/docs/adsdoc2002/manuals.htm

RFIC Dynamic Link (ADS2002) Installation & Users Guide

http://eesof.viewmark.com/docs/adsdoc2002/pdf/dynlnkug.pdf

Contact Agilent EEsof Technical Support

Email:

-America' seesof support@agilent.com

-Asia <u>eesof-asia support@agilent.com</u>
 -Japan <u>edasupport@jpn.agilent.com</u>
 -Korea <u>eesof korea@agilent.com</u>

-Europe <u>eesof-europe_support@agilent.com</u>

World Wide Web: http://eesof.expressresponse.com/Welcome.html

http://eesof.tm.aqilent.com/support/supp101.html

World Wide Phones: http://eesof.tm.aqilent.com/support/supp101.html

Products And Services Information

Product information: http://eesof.tm.agilent.com/

Support information: http://eesof.tm.aqilent.com/support/

Training classes' overview: http://www.agilent.com/find/education