

ACTIVE-CAD Configuration Information

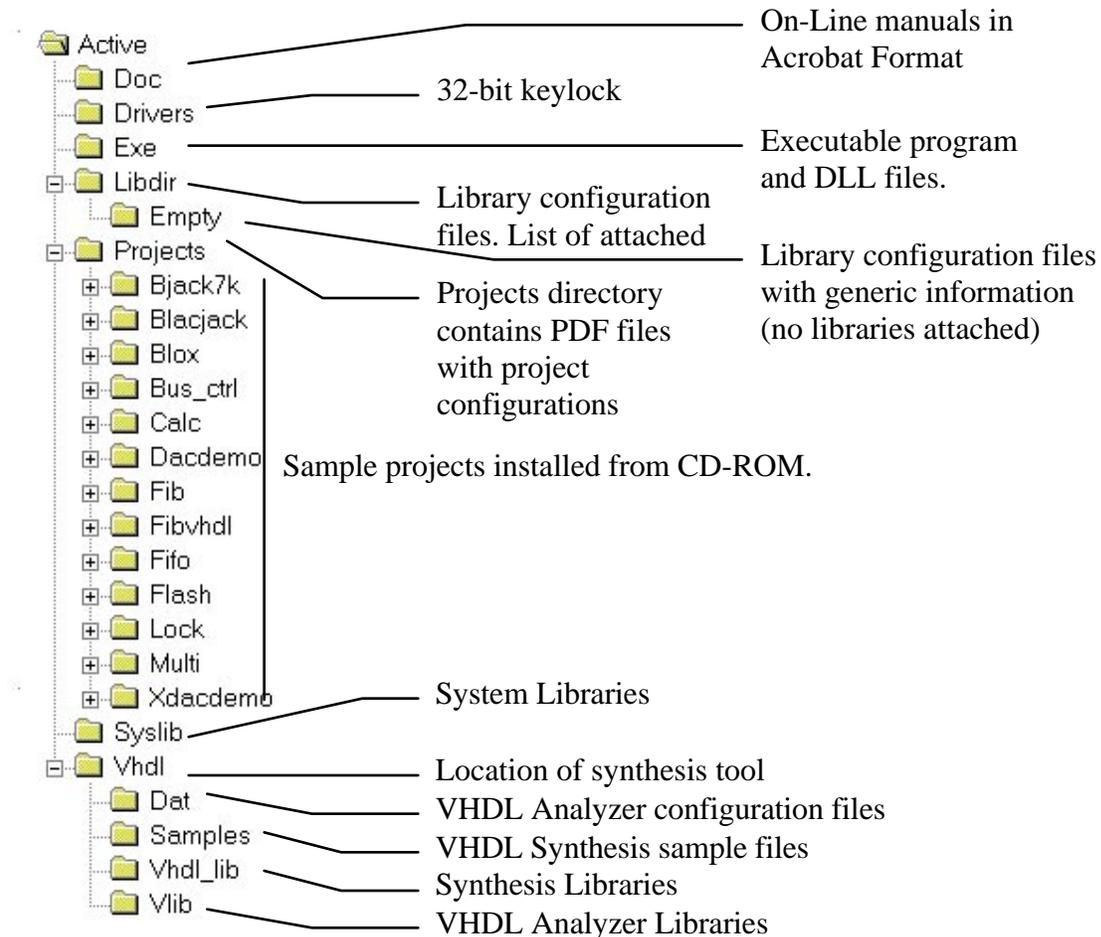
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Installation

- Express - installs all files into default directories
- Custom:
 - ◊ Executables (loads all program files)
 - ◊ Sample Projects (sample designs and tutorial)
 - ◊ Tools
 - ◊ Libraries
 - ◊ Documentation
- CDSETUP.EXE - installs files necessary to execute from CD-ROM
- INSTALL /A - administrative setup into the network server
- NETSETUP.EXE - installs ACTIVE-CAD to run of the network server

ACTIVE directory structure

Below is the typical ACTIVE directory structure:



Files outside ACTIVE directory

WINDOWS\SYSTEM:

MFC30.DLL
MFCANS32.DLL
MFC3D30.DLL
MFCN30.DLL
MFCO30.DLL
MFCUIA32.DLL
OLE2THK.DLL
RICHE32.DLL
COMCTL32.DLL
CTL3DNT.DLL (Windows NT only)
CTL3D32.DLL
MSVCRT20.DLL

WINDOWS:

SUSIE.INI ; ACTIVE-CAD configuration
HDE.INI ; HDL Editor configuration
; Btrieve files
BTI.INI ; configuration
WBTR32.EXE
WBT32RES.DLL
WBTRCALL.DLL
WBTRLOCL.DLL
WBTRVRES.DLL

PIF files located in WINDOWS directory (used to run DOS programs):

ABL2PLD.PIF	ABL2XNF.PIF	ABL7000.BAT	ABL7000.PIF	AHDL2X.PIF
BLIFOPTX.PIF	FPGA.PIF	FSIM.PIF	IMPROVEX.PIF	LCA2XNF.PIF
MAKEPROM.PIF	MEMGEN.PIF	PALCONVT.PIF	PLA2EQNX.PIF	READPLD.PIF
TSIM.PIF	VMH2XNF.PIF	X17.PIF	XABEL.PIF	XBLOX.PIF
XCHECKER.PIF	XDE.PIF	XDELAY.PIF	XDM.PIF	XEMAKE.PIF
XEMAKE6.PIF	XMAKE.PIF	XNFBA.PIF	XNFMERGE.PIF	XNFPREP.PIF

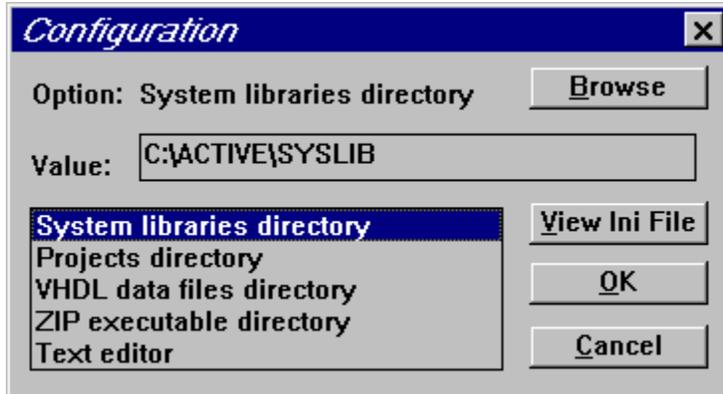
SUSIE.INI File

- SUSIE.INI is located in WINDOWS directory
- Contains location of ACTIVE-CAD directories
- Contains configuration saved by ACTIVE-CAD applications

Exercise:

In the **Project Manager** select the **Configuration** option in the **File** menu. In the **Configuration** window select **View INI File** button.

ACTIVE-CAD Configuration



Example of SUSIE.INI file:

```
[PATHS]
EXE=C:\ACTIVE\EXE
; location of EXE files, used by install program during updates
; this directory can be Read Only
LIBDIR=C:\ACTIVE
; location of LIBDIR directory with library LIB_DIR file
; this directory has to be Read/Write
PROJECTS=C:\ACTIVE\PROJECTS\
; default location of project PDF files
; this directory has to be Read/Write
LIBID=C:\ACTIVE
; location of LIBDIR directory with LIB_ID.S70 file
; can be other than LIBDIR setting above
; this directory has to be Read/Write
SYSLIB=C:\ACTIVE\SYSLIB
; default location of system libraries
; this directory can be Read Only
VHDLDAT=C:\ACTIVE\VHDL
; location of VHDL analyzer working files, Synthesis software
; and VHDL libraries
EDITOR=NOTEPAD.EXE
; name of the default editor used in ACTIVE-CAD for viewing text files
ZIP=C:\NC
; location of PKZIP program used to compress project in Archive option

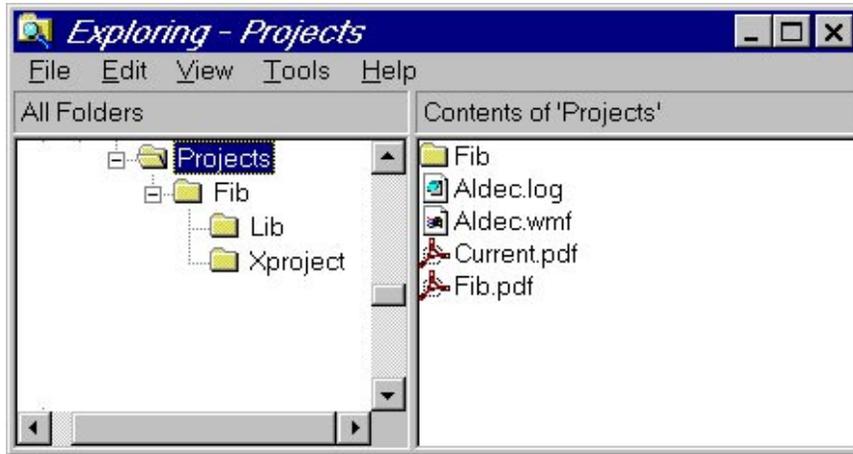
[USERDATA]
; registration data filled out by the user during installation
User=John Smith
Company=XYZ
KeyNum=12345

[Flow]
; this enables State Editor in Xilinx flows
FSM_X6=On
```

Project Directories

ACTIVE\PROJECTS directory contains:

- ◇ PDF configuration files for projects
- ◇ CURRENT.PDF file which is a working copy of the currently open project PDF file
- ◇ ALDEC.LOG file, which contains all messages from the system during the current session.
- ◇ ALDEC.WMF - ALDEC logo file in Metafile format for schematic table

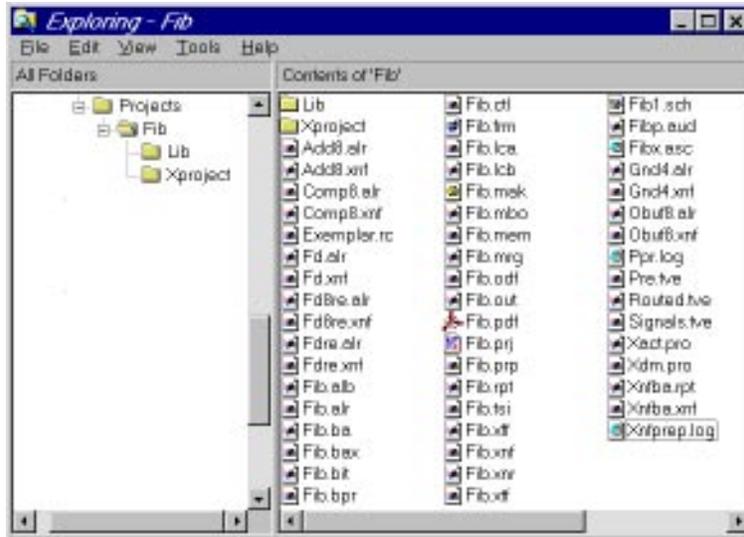


Project Directory Structure

Each project consists of:

1. PDF file (by default located in ACTIVE\PROJECTS directory)
2. Project directory (typically the same name as the project, under ACTIVE\PROJECTS)
3. Project Library (typically in LIB subdirectory of the project directory)
4. XPROJECT directory is created for XACT 6.0
5. All project files are located in project directory

ACTIVE-CAD Configuration



PDF Files

- PDF files contain all project settings
 1. Directory location
 2. Project Type
 3. Project libraries
 4. Project Resources
- PDF files are located in ACTIVE\PROJECT directory (default)
- Project directory specified in PDF file can be located outside of ACTIVE\PROJECTS location.

Exercise:

In the Project Manager window double-click on the first line in the Hierarchy Browser section. This line shows the name of the current project PDF file.

Example of PDF file:

```
[project]
name=CALC
directory=C:\ACTIVE\PROJECTS\CALC
netlist=CALC
contents=CALC
date=10/12/95
time=10:48:25
lib_order=0 71 53
generics=MAX
Type=XILINX
library_net=OFF
prj_scan=815248336
sim_mode=TIM
top_level=schematic

[xilinx]
family=2
xfam=XC4000A
```

ACTIVE-CAD Configuration

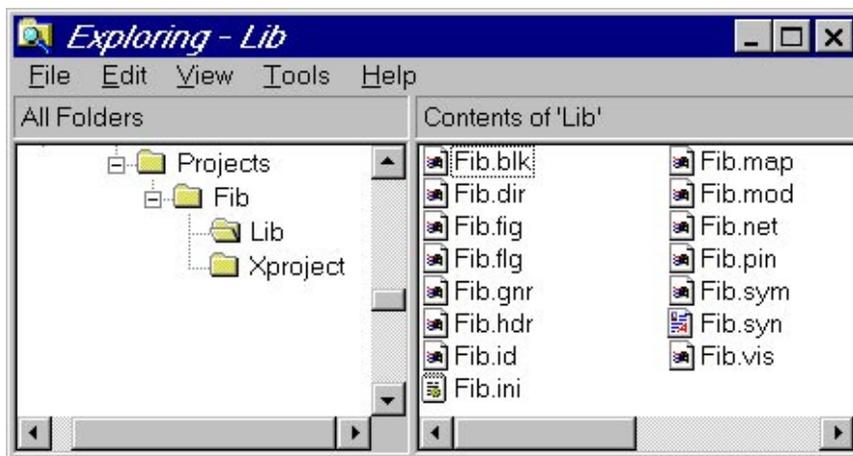
```
[device]
xilinx=4003APC84-4
part=4003APC84-4

[XACT6_OPT]
TIMING_OPT=ON
FileCTL=c:\designs\calc\calc.ctl

[netlist]
external=TRUE
name=c:\designs\calc\calc.BAX
format=Xilinx
```

Libraries

- **Project Libraries** - created automatically for each project in LIB subdirectory
- **User Libraries** - created by used to store symbols and macros to be used in several projects
- **System Libraries** - protected libraries delivered from ALDEC
- **Network Libraries** - Only Read Only and System Libraries can be used by multiple users
- Each Library consists of 15 files. System Libraries have 16 files.



Xilinx Libraries

Unified Libraries:

- X2000U, X3000U, X4000U, X4000EU, X5200U, X7000U

Old Xilinx Libraries:

- XILINX2, XILINX3, XILINX4

OrCAD compatible libraries:

- X4000UO

Libraries Configuration

- **LIB_DIR** - stores a list of attached libraries. Binary file, if deleted requires attaching libraries
- **LIB_ID.S70** - stores library ID numbers.
- **EMPTY** subdirectory contains copy of LIB_DIR and LIB_ID files.
- Libraries used in projects are automatically attached when project is open.
- Library Manager provides all necessary library management tools.

Typical library operations:

- ◇ **Attaching libraries** - This is performed when the library is not found in the system. Use **Library Manager Attach** option in the **Library** menu to add the libraries to the list.
- ◇ **Add Library to Project** - If the library is installed but is not visible in the current project, use **Project Libraries** option in **Project Manager** to add the required library.
- ◇ **Listing Library contents** - Double click on the library name in the Hierarchy Browser section of the **Project Manager**.
- ◇ **Deleting library object** - With the list of objects open, select the symbol to be deleted and press the **Del** keyboard key.