

# Executing from the



## CD-ROM

To preserve precious space on your PC's hard disk, XACTstep™ version 6 and Viewlogic PRO Series programs can be executed directly from the CD-ROM without being installed on the system's hard drive. Users must configure the system properly and set up a program group in Windows® to access the software located on the CD-ROM correctly. When executing from CD-ROM, the graphical tools will seem to take longer. Non-graphical programs, such as PPR, will be delayed only two to five minutes depending on the program loading time. ♦

### XACTstep only

This procedure for running XACTstep from the CD-ROM assumes that C:\ is a local drive and that D:\ is the CD-ROM

drive containing the XACTstep CD-ROM.:

- 1) If running Windows, exit.
- 2) Create a local XACTstep directory.

**Example: C:\CDXACT**

- 3) Make the following changes to the AUTOEXEC.BAT file:

**SET XACT=D:\XACT;**

**SET PATH=D:\XACT;<other\_paths>**

*NOTE: The only path added to the PATH environment variable is the CD-ROM executable path XACT. The local path created in the previous steps does not need to be added.*

**SET XACTUSER=C:\CDXACT**

*NOTE: To ensure that the XACTstep software has a directory that can be written to, the XACTUSER environment variable should be set to a local directory.*

- 4) Reboot your machine or execute your AUTOEXEC.BAT file so that the new changes take effect.
- 5) Start Windows.

Now that the system has been properly configured to run the software from the CD-ROM, all that remains is to create a

## Logic Synthesis

*Continued from previous page*

Synopsys, Viewlogic, Mentor Graphics, and Exemplar Logic tools.

Table 1 shows the current state of synthesis support from major EDA vendors for the Xilinx FPGA products. Support is indicated as either "gates" or "mapped,"

where mapped supports indicates that the synthesis compiler maps to the fundamental logic cell elements of that architecture.

VHDL or Verilog-HDL designers now have a number of choices in FPGA synthesis, both in terms of tools and device architectures. Many synthesis vendors are supporting full ASIC design methodologies for Xilinx. With the fast, PCI-compliant XC3100A, the cost-effective XC5200, the high density XC4000 with on-chip RAM, and the highly-configurable and non-volatile XC8100 families, Xilinx offers cost-effective, high-performance FPGA solutions for HDL-based design. ♦

**Table 1 - Xilinx FPGA Synthesis Support by Third-Party Vendors**

	XC3000	XC4000	XC5200	XC8100
Data I/O	Mapped	Mapped	Mapped	
Exemplar Logic	Gates	Mapped	Mapped	Mapped
IST	Mapped	Mapped	Mapped	
Mentor Graphics	Gates	Gates	Gates	Mapped
Synopsys	Mapped	Mapped	Mapped	Mapped
Synplicity	Mapped	Mapped	Mapped	
Viewlogic	Mapped	Mapped	Gates	Mapped

CD-ROM program group. To create a program icon, perform the following steps:

- 1) To create a new program group in the Program Manager, select the New command from the File menu. The New Program Object dialog is displayed.
- 2) Select the Program Group radio box and click on OK. The Program Group Properties dialog is displayed.
- 3) Enter the name of the new group in the Description text field and click on OK. For example, type "CD-ROM XACTstep 6.0". The new program group is created and displayed in the Program Manager.
- 4) To create a new Program Item in the new group, select the New command from the File menu.
- 5) Select the Program Item radio box and click on OK. The Program Item Properties dialog is displayed.
- 6) In the Description text field, type: Xilinx Design Manager
- 7) In the Command Line text field, type: D:\XACT\DSGNMGR.EXE
- 8) In the Working Directory text field, type: C:\CDXACT
- 9) Click on OK.
- 10) If you are using a network connection to mount the CD-ROM, confirm the Network Path Specified dialog. The CD-ROM XACTstep 6.0 program group is updated to include the Xilinx Design Manager program icon. ♦



## PRO Series and XACTstep

The following procedures describe how to set up a PC to run both the Viewlogic PRO Series and the Xilinx XACTstep tools directly from the CD-ROM. It assumes that C:\ is a local drive and that D:\ is the CD-ROM drive that contains the XACTstep CD-ROM.

- 1) If running Windows, exit.
- 2) Create a local PRO Series directory.  
**Example:** C:\CDPROSER
- 3) Create a STANDARD sub-directory in the PRO Series directory.  
**Example:** C:\CDPROSER\STANDARD
- 4) Create a local XACTstep directory.  
**Example:** C:\CDXACT
- 5) Create a DATA sub-directory in the XACTstep directory.  
**Example:** C:\CDXACT\DATA
- 6) Copy the PARTLIST.XCT file from the CD-ROM XACTstep DATA sub-directory to the XACTstep DATA sub-directory.  
**Example:** copy D:\XACT\DATA\PARTLIST.XCT C:\CDXACT\DATA
- 7) Make the following changes to the AUTOEXEC.BAT file:

**SET WDIR=C:\CDPROSER\STANDARD;D:\PROSER\STANDARD**

*NOTE: The first directory in the WDIR environment variable MUST be a writable directory. This is where the project information will be written. The second path included in WDIR is the CD PRO Series STANDARD directory and is used by the PRO Series software to find data files.*

**SET XACT=C:\CDXACT;D:\XACT;D:\PROSER**

*NOTE: The first directory in the XACT environment variable MUST contain a writable version of the PARTLIST.XCT data file in its DATA sub-directory. This is used by Xilinx PROflow which will fail if the CD-ROM version which is not writable is used. The second path included in XACT is the CD XACT directory and is used by the XACTstep software to locate data files.*

**SET PATH=D:\XACT;D:\PROSER;<other\_paths>**

*NOTE: The only paths added to the PATH environment variable are the CD-ROM executable paths XACT and PROSER. You do NOT need to add the local paths created in the previous steps.*

**SET XACTUSER=C:\CDXACT**

*NOTE: To ensure that the XACTstep software has a directory that can be written to, the XACTUSER environment variable should be set to a local*

*directory. Because a local XACTstep directory has already been created to store a local copy of the partlist it can be used as the temporary file storage area as well.*

- 8) Reboot your machine or execute your AUTOEXEC.BAT file so that the new changes take effect.
- 9) Start Windows.

Now that the system has been properly configured to run the software from the CD-ROM, all that remains is to create a CD-ROM program group. To create a program icon for Xilinx PROflow, perform the following steps:

- 1) To create a new program group in the Program Manager, select the New command from the File menu. The New Program Object dialog is displayed.
- 2) Select the Program Group radio box and click on OK. The Program Group Properties dialog is displayed.
- 3) Enter the name of the new group in the Description text field and click on OK. For example, type "CD-ROM XACTstep 6.0". The new program group is created and displayed in the Program Manager.
- 4) To create a new Program Item in the new group, select the New command from the File menu.
- 5) Select the Program Item radio box and click on OK. The Program Item Properties dialog is displayed.
- 6) In the Description text field, type: Xilinx PROflow
- 7) In the Command Line text field, type: D:\PROSER\PSFM.EXE
- 8) In the Working Directory text field, type: C:\CDPROSER  
*NOTE: It is important that the Working Directory be located on the same drive as projects that will be used in Xilinx PROflow.*
- 9) Click on OK.
- 10) If you are using a network connection to mount the CD-ROM, confirm the Network Path Specified dialog. The CD-ROM XACTstep 6.0 program group is updated to include the Xilinx PROflow program icon. ♦