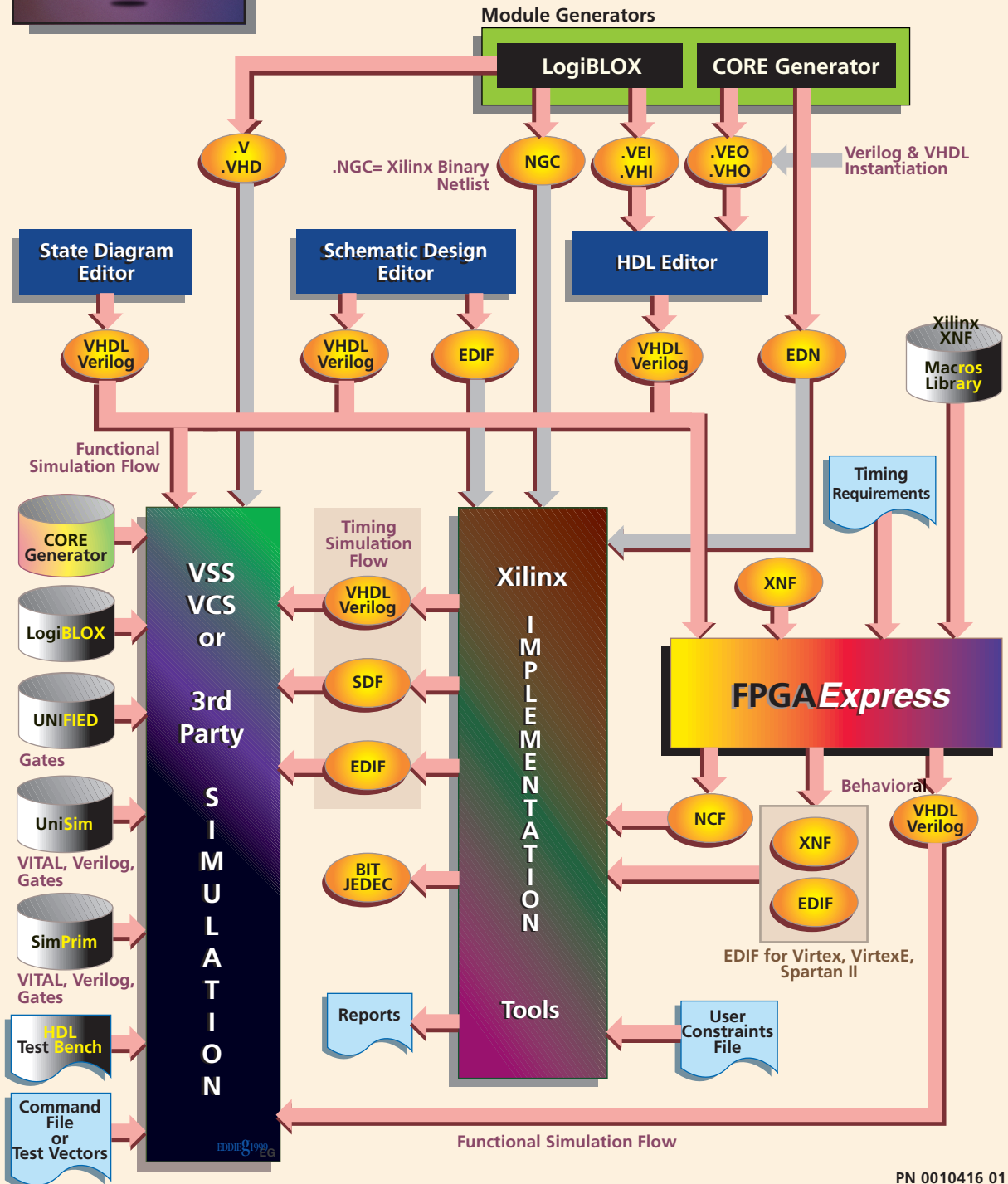




Synopsys FPGA Express Implementation Flow





Synopsys FPGA Express Information

Guide Overview

Device Architecture Support

FPGA Product Family

Spartan
Virtex
XC4000X

CPLD Product Family

XC9500

Xilinx Contacts and Technical Support

World Wide Web:
<http://www.xilinx.com>

North America 1-800-255-7778 hotline@xilinx.com	France 33 1-3463-0100 frhelp@xilinx.com
United Kingdom 44 1932-820821 ukhelp@xilinx.com	Japan 81 3-3297-9163 jhotline@xilinx.com

Synopsys Contacts and Technical Support

World Wide Web:
<http://www.synopsys.com>
United States
1-800-245-8005
support_center@synopsys.com

1 Create a project

Go to menu **File** → **New** and define a new project. All HDL files processed by FPGA Express must be done through a project.

2 Add HDL files to project and analyze HDL files

After creating project, HDL design files can be added to the project. After adding the HDL design files, **FPGA Express** will automatically analyze the HDL files.

3 Implement the design

Select the top-level **module/entity** in the **Design Sources** window and the **implement** button will be highlighted.

Click on the **implement** button and specify the target **die**, **speed grade** and **package**. Strategies for synthesis can be specified during implementation.

4 Enter constraints

In the **Chips** window, select the implementation. Right-click on the selected implementation and select **Edit Constraints**. A window will appear where various constraints can be edited. After entering constraints, save constraints by closing the constraints window.

5 Optimize the design

Click on the **optimize** button located next to the **implement** button to synthesize the design OR select the menu **Synthesis** → **Optimize Chip**

6 Place & Route XNF or EDIF file with A2.1i

After optimization, write out the XNF or EDIF file by clicking on the **Export Netlist** button next to the **implement** button. Place and Route the XNF or EDIF file using **A2.1i** implementation tools with the Design Manager GUI or DOS shell based commands.