



ABEL™ /Synario™ Design Software Kit for FLASH370™

Features

- **Device independent design entry formats:**
 - ABEL-HDL for ABEL-4, ABEL-5, and ABEL-6
 - Schematic entry, VHDL, and ABEL-HDL for Synario™
- **Full integration supporting all ABEL™ and Synario™ design features**
- **Supports the full family of FLASH370™ devices**
- **Graphical device simulator included (CYPSIM)**
- **Automatic installation into existing ABEL and Synario environment**
- **Available on PC and Sun workstation design platforms**

Introduction

The seamless integration of Data I/O's ABEL or Synario software design environment and the Cypress FLASH370 ABEL fitter offers a powerful solution for fitting ABEL and Synario designs into the Cypress CPLD device family.

Functional Description

The design process in the ABEL environment begins with entering ABEL-HDL (and optional test vectors) using any text editor. The process in Synario is guided by the Project Navigator, and begins with design entry in either schematic, VHDL, or ABEL-HDL. The design can then be functionally simulated at the source-level. It then goes through logic optimization and minimization. The output file then goes into the FLASH370 fitter. Test vectors specified in the ABEL-HDL files are also automatically processed for use in post-fitting device simulation.

The FLASH370 fitter generates a JEDEC file for device programming and post-fitting simulation in CYPSIM. The test vectors will also be read in for functional verification.

The post-fitting simulator, CYPSIM, operates under the Windows environment. It takes JEDEC files as input and can read in and write out stimulus files (e.g. test vectors from ABEL-HDL) for functional verification of the design. Users can edit input waveforms graphically and specify simulation length and resolution interactively. Signals can also be grouped, manipulated, and viewed in various formats.

System Requirements

PC Platform

- 80486-based IBM PC
- Microsoft Windows V3.1
- 16 Mbytes of RAM
- 40 Mbytes of disk space
- 1.44-Mbyte 3.5-inch floppy disk drive

Sun Platform

- SPARC CPU
- Sun OS 4.1 or later
- Motif GUI
- 16 Mbytes of RAM
- 50 Mbytes of disk space

Ordering Information

CY3140 ABEL/Synario Development System for FLASH370 includes:

- ABEL Fitter Software on 3½-inch 1.44-Mbyte floppy disks for PCs
- ABEL Fitter Software on 3½-inch 1.44-Mbyte floppy disks for Sun
- ABEL Fitter User's Guide
- Warp2™ Software on 3½-inch 1.44-Mbyte floppy disks
- Warp2 User's Guide
- Warp2 Synthesis Reference
- Registration Card

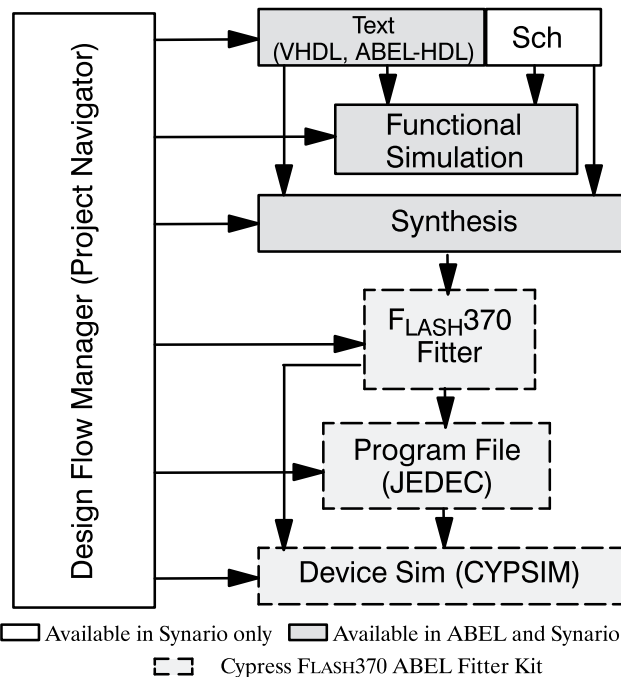


Figure 1. ABEL/Synario Design Flow

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