

ABEL™/Synario™ Design Kit for FLASH370i™

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 FLASH370i™ 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 FLASH370i 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 FLASH370i fitter. Test vectors specified in the ABEL-HDL files are also automatically processed for use in post-fitting device simulation.

The FLASH370i 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

486-based IBM PC
 Microsoft Windows 3.1, 95, NT
 16 Mbytes of RAM
 8 Mbytes of disk space
 1.44-Mbyte 3.5-inch floppy disk drive

Sun Platform

SPARC CPU
 Sun OS 4.1 or later
 16 Mbytes of RAM
 8 Mbytes of disk space

Ordering Information

CY3140 ABEL/Synario Design Kit for FLASH370i includes:
 ABEL Fitter Software on two 3.5-inch floppy disks for PCs
 ABEL Fitter Software on 3 3.5-inch floppy disks for Sun
 ABEL Fitter User's Guide
 Registration Card

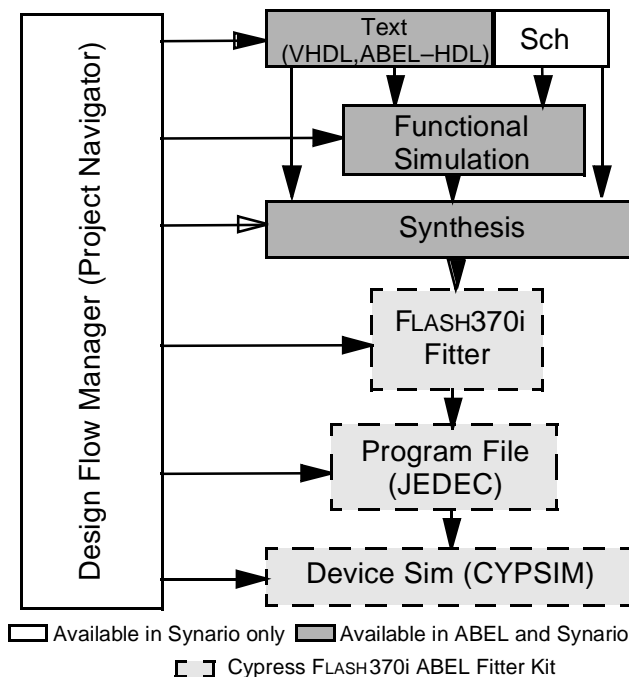


Figure 1. ABEL/Synario Design Flow

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