SLF Analyzer

The Front-End for Power Aware EDA Tools

Highlights

- High performance analysis
- Reads multiple SLF files in a single run
- Strong type checking parser
- Well-defined, complete set of API functions for complete in-memory processing
- C++ OM with objects and expression trees
- C API for integration with C as well as C++ applications
- Selective OM population for enhanced performance and efficiency
- Support for Scalable Polynomial Delay and Power Models
- Easy traversal of Boolean expressions

Key Advantages

- Supports SLF 2008.09 and is continuously updated for new SLF formats
- Comprehensive coverage of SLF constructs
- Comprehensive validation of syntax and semantics
- Backed by Interra's field-proven expertise in developing analyzers

Interra's SLF Analyzer addresses the need of EDA tool developers who need to add support in their products for using technology information from SLF files.

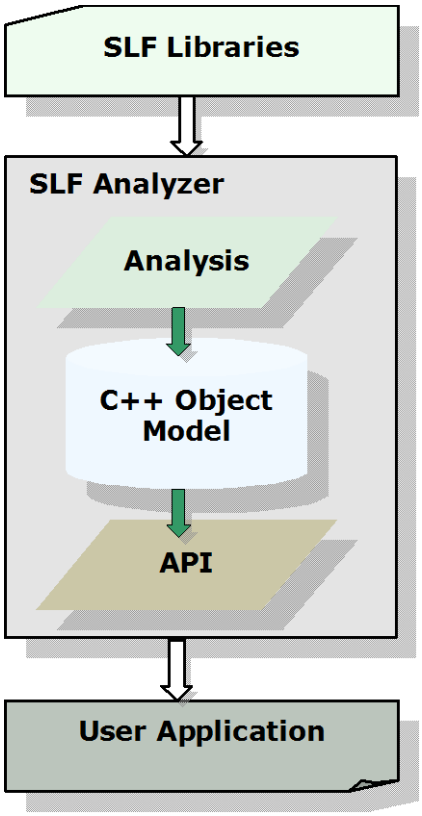
The SLF Analyzer analyzes one or more SLF files corresponding to a technology and generates a C++ Object Model (OM). Additionally, it is possible to customize the SLF Analyzer to skim through SLF file and selectively load a partial C++ OM so as to enhance performance and reduce memory usage.

The SLF Analyzer's intuitive C API can be easily integrated with C++ as well as C applications.

The SLF Analyzer is continuously updated for evolving SLF formats with new technology formats, such as groups, and attributes. The SLF Analyzer currently supports SLF version 2008.09.

Backed by Interra's field proven expertise in developing analyzer, the SLF Analyzer offers a best value solution.

The SLF Analyzer is available on Linux, Sun (both 32 and 64 bits), and Windows platforms.



The SLF Analyzer Features

Complete Language Support

The SLF Analyzer completely supports SLF 2008.09: all formats, groups, and attributes. In addition, the analyzer is continuously updated for new formats.

C Procedural Interface (API)

The Analyzer's C procedural interface provides the flexibility to integrate the API with C and C++ applications. The intuitive API function names facilitate a short learning curve.

Powerful Object Model

The SLF OM is derived from the SLF language grammar so that accessing the information from the OM is an intuitive process. The C++ OM consists of pure objects and expression trees.

Selectable Object Model Population

The SLF Analyzer API provides you the flexibility to populate a partial OM, such as an OM of the timing group or the internal_power group. This feature ensures that your applications are efficient and high in performance

Boolean Expression Trees

The SLF Analyzer populates Boolean expressions as expression trees. This feature enables easy traversal of the expression using the SLF API functions.

Debug Tools

The API enables you to decompile any object in the OM.

You can also use the Decompiler utility to write the complete in-memory object model as an SLF description.

Customized Error Handling

The API enables you to suppress or enable messages for application specific needs.

Also available:

- Cheetah System Verilog Analyzer
- Jaguar VHDL Analyzer
- Analyzers for CPF, UPF, HSPICEE, SDF, SPF (DSPF/RSPF), SPEF, LEF, DEF, SAIF, and VCD.

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