

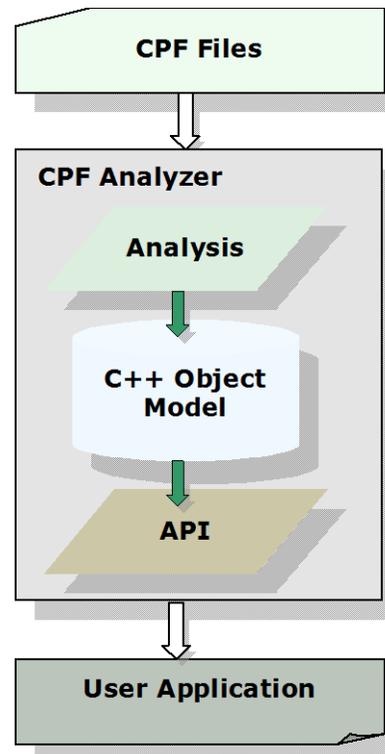
## Highlights

- A customizable framework for annotating power intent into the design at any stage in the design flow: RTL, logic, placement
- Support for all CPF commands up to Version 1.1
- Complete Support for CPF-1.0 and CPF-1.1 in a single library
- Flexible and easy to integrate C++ interface
- Dynamic and extensible Object Model.
- Internal memory manager for optimum use of memory
- Customizable error callback routines that return file name and line numbers
- Can be easily integrated with existing tools built on top of TCL interpreter
- Run on non-panic mode, - reports all errors at one go
- Fully re-entrant
- Is backed by Interra's field-proven expertise in developing analyzer and synthesis libraries

Addressing the needs of EDA tool developers who need a syntax checker plug-in for SI2's Common Power Format (CPF), Interra offers CPF Analyzer - A TCL based syntax and semantic validator for CPF. Available as an efficient and customizable plug-in, the CPF Analyzer assures faster time-to-market for CPF-based tools in the low power domain.

CPF Analyzer performs complete syntax check for all the CPF commands in accordance with CPF Version 1.1, Sept-19, 2008. In addition, the analyzer performs implicit semantic validation for the CPF commands. The CPF analyzer uses an efficient C++ object model to represent the contents of a CPF file. The object model can be easily accessed using the analyzer's C++ interface enabling seamless integration with C++ based EDA Tools.

CPF Analyzer is available on Solaris, Linux, and Windows platforms.



# The CPF Analyzer Features

## Complete Support for CPF-1.1

The analyzer performs syntax and semantic validation for all the commands in accordance with CPF Version 1.1.

The analyzer is completely backward compatibility with version 1.0.

## Extension of TCL Library

The CPF analyzer is an extension of the TCL interpreter and supports all the in-built TCL commands.

The analyzer uses TCL8.4 library. The TCL library has been customized to get the line number and file name.

## C++ Class Hierarchy Accessed Through C++ Interfaces

The analyzer provides an efficient and robust C++ class hierarchy for storing the power information. This information can be easily accessed through the C++ interface of the analyzer.

## Editable Object Model

The analyzer's object model is dynamic and editable. C++ based applications can access the object model using the analyzer's C++ interfaces. This gives the extra power to those EDA tools that read CPF power information as input and then writes out a different CPF by taking care of name mapping from RTL to gate-level netlist. The analyzer also provides a framework to create the CPF object model from scratch!

## Reuse of Customized TCL Interpreter

User applications, which have a customized TCL interpreter for reading other TCL based formats, such as SDC (Synopsys Design Constraint), can simply re-use the already customized TCL interpreter and extend it by adding CPF related commands into it.

## Configurable Error Callback

The analyzer allows registration of custom error messages for application-specific needs.

### Also available:

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