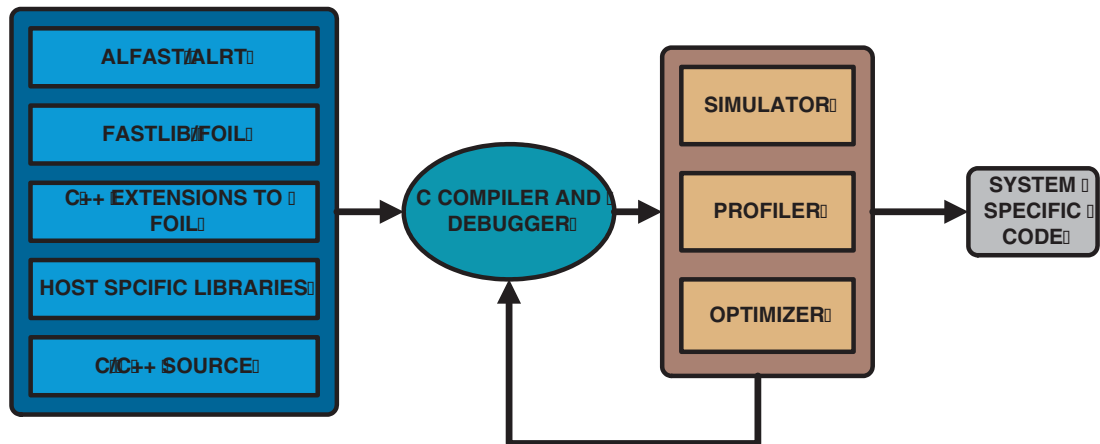# ALACRON
Code Development Tools

FastSeries GUI-based Development Environment

Alacron' provides a comprehensive suite of system software tools to compile and debug applications, analyze and optimize performance, and simulate execution on the processor.

GUI BASED CODE DEVELOPMENT ENVIRONMENT

ALFAST/ALRT

FASTLIB/FOIL

C++ EXTENSIONS TO FOIL

HOST SPCIFIC LIBRARIES

C/C++ SOURCE

C COMPILER AND DEBUGGER

SIMULATOR

PROFILER

OPTIMIZER

SYSTEM SPECIFIC CODE

ALACRON
Code Development Tools

Software Tools

- **Assembler**
  - ☐ Easy to use algebraic syntax simplifies programming
  - ☐ Allows use of C-style preprocessor directives (e.g. #include,#ifdef#else)
- **Assembly Library**
  - ☐ Optimized arithmetic and DSP routines
  - ☐ Librarian tools allow you to create your own library or add your own routines to existing libraries.
- **Linker**
  - ☐ Combines assembly object files and library files to produce executable program
- **Simulator**
  - ☐ Powerful debugging tool
  - ☐ Models the architecture of the processor
  - ☐ Performs instruction-level simulation of program execution
  - ☐ Supports symbolic level debugging
  - ☐ Integrates with the C source-level debugger
- **Optimized Compiler**
  - ☐ Optimized for processor instruction set
- **C Runtime Library**
  - ☐ ANSI-standard functions to ease program development
- **C Source-Level Debugger**
  - ☐ Full-Featured source-level debugger
  - ☐ Used along with simulator to debug code on single-and multiprocessor systems
  - ☐ User friendly graphic interface provides full control over program execution
- **ALRT and ALFAST I/O Libraries**
  - ☐ Alacron's run-time development software to control the input/output resources on the FastSeries board. It consists of libraries that handle capture operations, control the accelerator, and direct data to the digital input/ output port.

ALACRON