



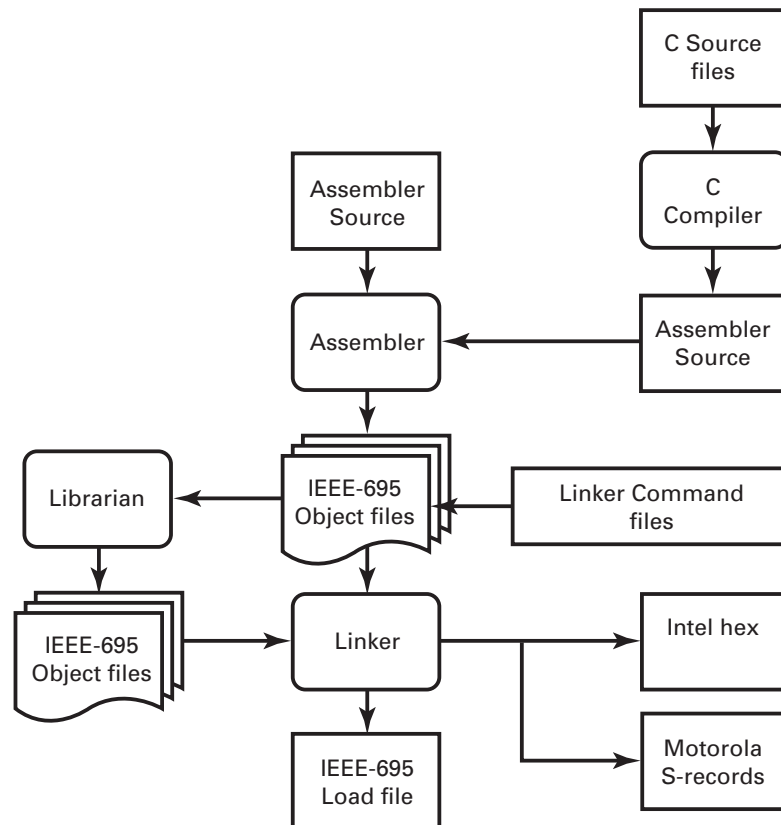
INTRODUCTION

The Z8 C-Compiler is an optimizing ANSI C-Compiler. The Z8XXDOS0100ZCC meets ANSI's definition of a *freestanding implementation*, with the exception that doubles are 32 bits. In accordance with the definition of a freestanding implementation, the compiler accepts programs which confine the use of the features of the ANSI standard library to the contents of the standard headers <float.h>, <limits.h>, <stdarg.h> and <stddef.h>. This release supports more of the standard library than is required of a freestanding implementation.

The compiler runs on Windows95/98/NT and can be invoked either through the command line or used within the ZDS integrated development environment (at press time, ZDS is not yet available). There are several language extensions supported in this version, including interrupt functions and control of data allocation within different memory spaces.

Figure 1 is an example of the C-Compiler development flow.

FIGURE 1. DEVELOPMENT FLOW





SOFTWARE FEATURES

- Highly-Optimized ANSI C Cross-Compiler
- Two programming models: small and large
- ANSI C run-time library:
 - String manipulation
 - Character classification and conversion
 - Buffer manipulation
 - Data conversion
- Single precision IEEE floating point support
- Extensions for memory qualifiers
- Extensions for interrupt service routines
- Support for in-line assembly
- Intrinsic functions that are in-line expanded
- Copies initialized data from ROM to RAM
- Can be used within ZDS or individually on command line
- Optimizations:
 - Constant folding
 - Dead object removal
 - Simple jump optimization
 - Constant propagation
 - Copy propagation
 - Dead code elimination
 - Common sub expression elimination
 - Jump-to-jump optimizations
 - Condition evaluation optimizations
 - Constant evaluation and expression simplification



SOFTWARE SPECIFICATIONS

SOFTWARE:

- Z8 ANSI C-Compiler

HOST OPERATING SYSTEM:

- Windows 95/98/NT

MINIMUM REQUIREMENTS

- IBM PC (or 100-percent compatible) Pentium-based machine
- 75 MHz
- 16 MB Memory
- VGA Video Adapter
- Hard Disk Drive with 12 MB Free Space
- CD-ROM Drive
- Mouse or Pointing device
- Microsoft Windows 95/98/NT

SUPPORTED ZILOG PROCESSOR FAMILIES:

- ZiLOG Z8, Z8Plus

OPERATING ENVIRONMENT:

- ZiLOG Developer Studio or command line

TECHNICAL SUPPORT:

E-mail: csupport@zilog.com, tools@zilog.com

Telephone: 1-877-945-6427

512-306-4169 (all other countries)

Fax: 512-306-4072



DISTRIBUTION CONTENTS

- C-compiler
- Assembler, linker, and archiver executables
- Header files
- Libraries
- Sample
- C-Compiler User Manual in PDF format
- Release document with change logs

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