

# Compiler

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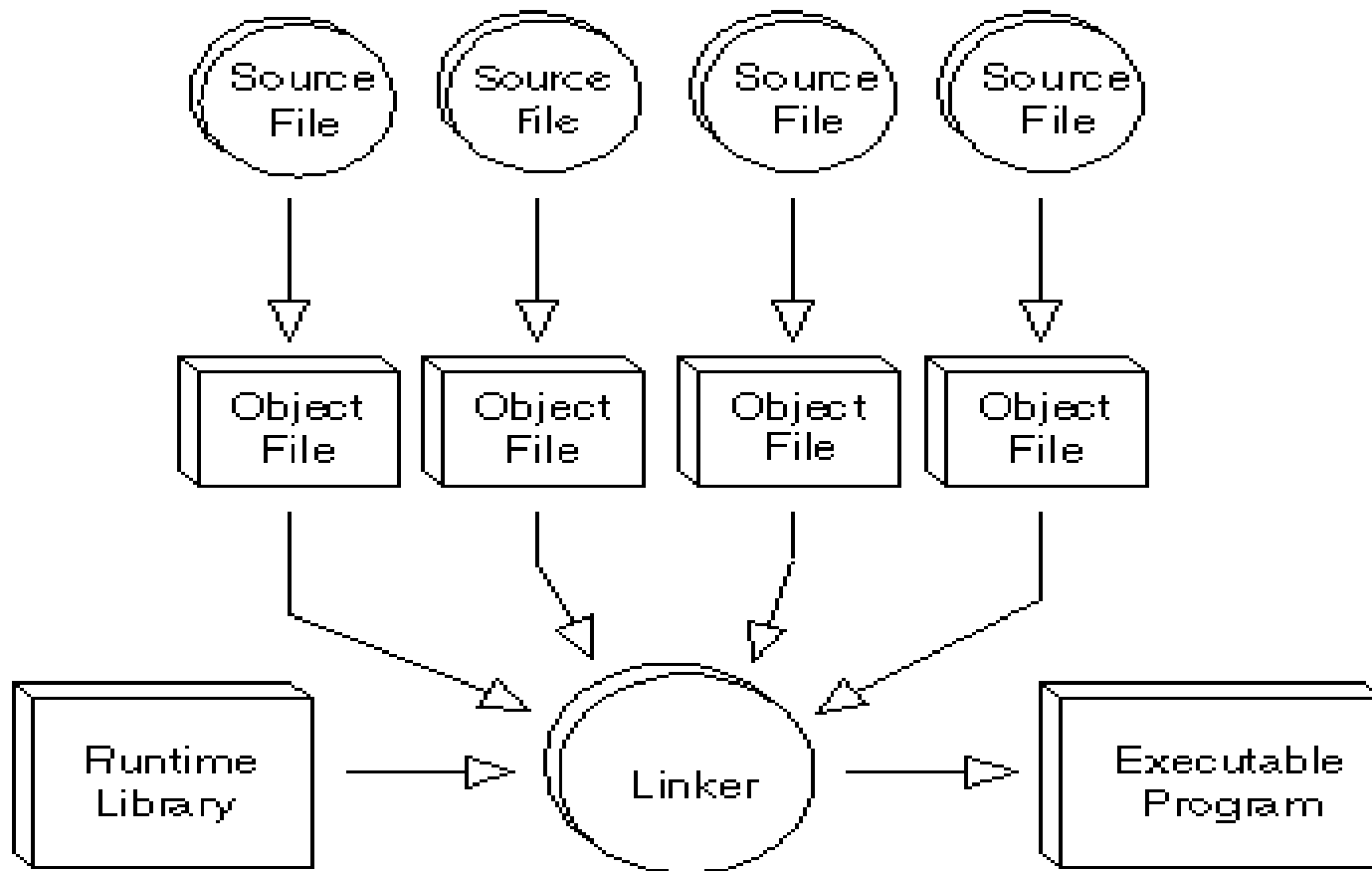
TOPIC: Compiler

# What is compiler

- A high level language program must be converted into equivalent machine language Before it can be executed on a computer.

this translation is done with the help of a translator program called **Compiler**

- Hence a compiler is a translator program that translates high level language program into its equivalent machine language program  
compilers translate source code into object code, which is unique for each type of [computer](#),



- Every high-level programming language (except strictly interpretive languages) comes with a compiler.
- In effect, the compiler is the language, because it defines which instructions are acceptable.
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- many compilers are available for the same language. For example, there is
- a [FORTRAN](#) compiler for PCs and another for [Apple Macintosh computers](#).

- , the compiler industry is quite competitive, so there are actually many compilers for each language on each type of computer.
- More than a dozen companies develop and sell C compilers for the PC.

# Source code

- Source code is the set of instructions and statements written by a programmer using a computer programming language.
- This code is later translated into machine language by a compiler. The translated code is referred to as object code.
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# Machine code

- **Machine code** is a computer program written in **machine** language.
- It uses the instruction set of a particular computer architecture.
- It is usually written in binary.
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- **Machine code** is the lowest level of software.
- Other programming languages are translated into **machine code** so the computer can execute them.

# object code

- **object code** or **object module** is the product of a [compiler](#).
- The term indicates that the code is the [goal](#) or result of the compiling process, with some early sources referring to source code as a "subject program."

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