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DATE:

22-Ene-2025

Juan Antonio Pérez Pérez

- John Esteban Valdez Lopez

Traductores de Lenguajes II

Procesadores de Lenguaje

Es un programa que convierte un lenguaje a otro

No todos los procesadores de lenguaje son compiladores

Los arrays indexan desde 0

Programa Fuente

Compilador

Programa destino

Entrada

Programa Destino

Salida

Programa Fuente

Entrada

Interprete

Salida

Programa Fuente

Traductor

Programa Intermedio

Compilador híbrido

Máquina Virtual

Salida

Entrada

Investigar 3 ejemplos de cada procesador de Lenguaje.

Tarea 1

What is a Language processor

Is a type of software that translate and executes high-level programming languages into machine language that computers can

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Understand and act upon.

The main difference between a compiler and an interpreter lies in how they process the source code. A compiler translates the entire source code into machine code before the program runs, which means you must compile your program every time you make changes to it before running. An interpreter, in the other hand, translates and executes line by line as the program runs.

While compilers are known for their speed and efficiency in execute code, interpreters offer flexibility and ease of the during the development.

Examples for each type:

1.- Interpreter

- Python
- Ruby
- Javascript

2.- Compiler

- C
- C++
- Rust

3.- Hybrid compiler: Languages that use a hybrid approach compile the source code into intermediate bytecode, which is then executed by a virtual machine on runtime environment.

- Java
- C#
- Kotlin

Aho, A. V. Sethi, R. & Ullman, J. D. (1986) Compilers. Principles. techniques and tools. Addison-Wesley 22-Enero-2025