

Difference between Compiler and Interpreter

| <u>COMPILER</u> | <u>INTERPRETER</u> |
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| Compiler scans the whole program in one go. | Interpreter scans one statement at a time. |
| The errors are displayed after the entire program is checked. | Errors are displayed on every instruction. |
| Debugging is slow. | Debugging is fast. |
| Execution time is less. | Execution time is More. |
| Compiled language is more difficult to debug. | Debugging is easy because the interpreter stops and reports errors as it encounters them. |
| Compiled Languages are more efficient. | Compiled Languages are less efficient. |
| Memory requirement is more. | Memory requirement is less. |
| A Compiler always generates an intermediary code. | An interpreter does not generate intermediary code. |
| Stores machine code in the disk storage. | Machine code is not stored anywhere. |
| Examples : C,C++ | Examples:PHP,Python |