

Difference between the compiler and interpreter :-

Compiler

- 1) It takes entire high level language program as input & translate it into m/c language.
- 2) All errors that occur in the prog. are listed and displayed
- 3) Requires more memory
- 4) Costly

Interpreter

- 1) It takes one statement of HLL program as input and translate it into m/c language
- 2) Errors that occur only in the statement being taken for translation are displayed.
- 3) Requires less memory  
Cheaper

Difference between m/c language and HLL :-

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M/C language

- 1) uses only two symbols 0 and 1.
- 2) Each inst. can be ~~not~~ directly executed.
- 3) m/c dependent
- 4) Difficult to understand, write and modify.
- 5) Fast execution

HLL

- 1) use alphabets, digits & special symbols.
- 2) Each inst. can not be directly executed
- 3) m/c independent
- 4) Easy to understand, write and modify.
- 5) Slow execution

Difference between Assembly language and HLL :-

AL

- 1) Mnemonic or symbolic inst.
- 2) m/c dependent
- 3) Assembly is used in the translation process.

HLL

- 1) English like statements.
- 2) m/c independent
- 3) compiler or interpreter is used in the translation process