

ASSEMBLY LANGUAGES

Assembly Language

Is a low-level language



Represents a number of languages

Assembly Language

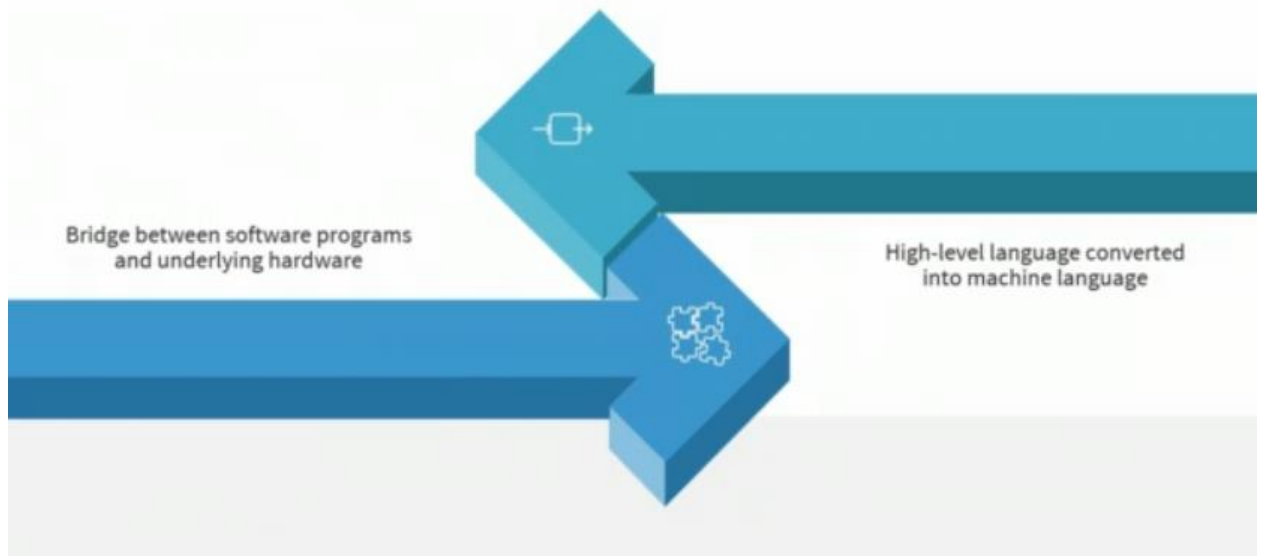
Communicates directly with hardware



Specific to CPU



How Assembly Language Works



Assembly Language

Is typically used for specific tasks



Device drivers, boot codes, low-level embedded systems

Advantages of Assembly Language



How programs
interface with OS,
BIOS and CPU



How data is
represented in
memory



How processor
executes
instructions



How instructions
access and process
data