

How Microprocessors Work – a closer look

1. Underline the following words in the text and give their German meaning.

English	German	English	German
approximately	ungefähr	a flip-flop	Kippschaltung
to boost	verstärken	ability	Fähigkeit
to execute	ausführen	to increment	erhöhen
floating point unit	Gleitkommaprozessor	to reset	zurücksetzen
sophisticated	hochentwickelt	a value	Wert
capable	fähig	a comparison	Vergleich
to assume	annehmen (denken)	to determine	bestimmen
a latch	ein Riegel eine Schalte	an adder	Addierwert

2. Answer the following questions according to the text.

a) What is the native language of a microprocessor?

Assembly language

b) On what are the three basic things a microprocessor does based?

Based on machine instructions, mathematical operations (with ALU); move data; make decisions

c) What are registers A,B, and C made out of?

Flip-Flops

d) What is the extra ability of the program counter?

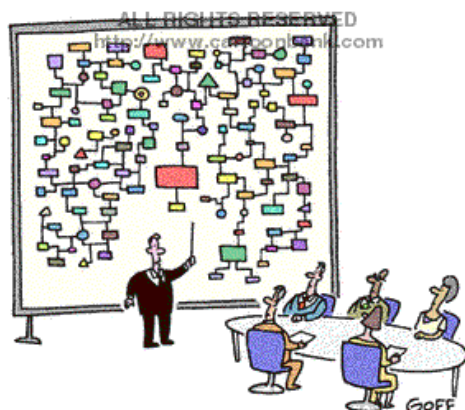
It can increment by 1 when told so

e) What is the test register?

Special latch that can hold values from comparisons performed in the ALU

f) How many tri-state buffers are in the diagram?

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"And that's why we need a computer."