POP Pop Top of Return Stack

Syntax: [label] POP

Operands: None

Operation: $(TOS) \rightarrow bit bucket$

Status Affected: None

Encoding: 0000 0000 0000 0110

Description: The TOS value is pulled off the

return stack and is discarded. The TOS value then becomes the previous value that was pushed onto the

return stack.

This instruction is provided to

enable the user to properly manage the return stack to incorporate a

software stack.

Words: 1

Cycles: 1

Q Cycle Activity:

Q1	Q2	Q3	Q4
Decode	No	POP TOS	No
	operation	value	operation

Example: POP

GOTO NEW

Before Instruction

TOS = 0031A2h Stack (1 level down) = 014332h

After Instruction

TOS = 014332h PC = NEW

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