

# GOTO

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## GOTO Unconditional Branch

Syntax: `[label] GOTO k`

Operands:  $0 \leq k \leq 1048575$

Operation:  $k \rightarrow PC<20:1>$

Status Affected: None

Encoding:

1st word ( $k<7:0>$ )

1110

1111

$k_7kkk$

$kkkk_0$

2nd word ( $k<19:8>$ )

1111

$k_{19}kkk$

$kkkk$

$kkkk_8$

Description: GOTO allows an unconditional branch anywhere within entire 2 Mbyte memory range. The 20-bit value 'k' is loaded into PC<20:1>. GOTO is always a two-cycle instruction.

Words: 2

Cycles: 2

Q Cycle Activity:

Q1	Q2	Q3	Q4
Decode	Read literal 'k'<7:0>,	No operation	Read literal 'k'<19:8>, Write to PC
No operation	No operation	No operation	No operation

Example: GOTO THERE

After Instruction

PC = Address (THERE)

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