

# Motorola Semiconductor Engineering Bulletin

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## EB299

### Why M68HC711D3PGMR Software Does Not Run on 486 33-MHz Computers

By Janet M. Snyder  
Austin, Texas

#### General Information

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M68HC711D3PGMR software cannot communicate with an HC11 when it is run on a 33 Mhz or faster 486 IBM PC (personal computer) or clone. Unfortunately, the only solution is to run GLOADD3 from a slower machine.

GLOADD3 communicates with the serial port of an IBM PC or clone. The software executes a timing loop designed to give the EPROM time to program. In this timing loop, the PC repeatedly sends a data stream to the MC68HC11 for it to echo back.

However, 486 33-MHz PCs run so fast that they send the next stream of data before the MC68HC11 has had time to echo the previous stream. Since the PC does not get the correct response from the MC68HC11, it tells GLOADD3 that communications have failed. The end result is that the PC has run through the timing loop so fast that the MC68HC11 did not have time to program the EPROM.

This problem has not been tested on 386 machines.

However, if it occurs, the only solution at this time is to use GLOADD3 with a slower PC.



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