

MicroSmart Pentra FC5A BUG REPORT

Type: FC5A-D16RK1/-D16RS1/-D32K3/-D32S3

Firmware Version : 210 (Included in WindLDR version 5.32)

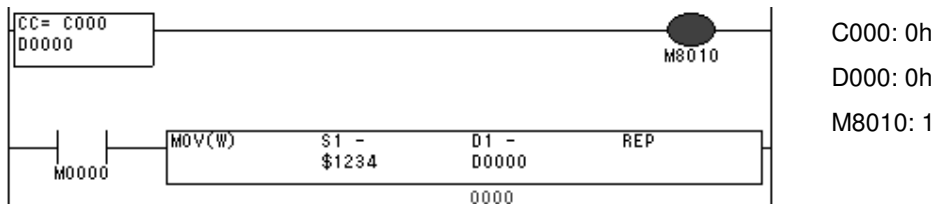
LogicEngine Version : 110 or 120

Bug descriptions and procedure to reproduce this bug

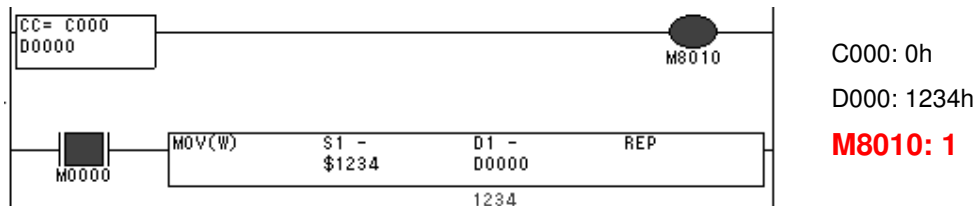
CC (Counter Comparison) instruction in the FC5A firmware version 210 in conjunction with LogicEngine version 110 or 120 does not operate correctly.

This bug can be reproduced by the following procedure.

1. Create the following ladder program in WindLDR.



2. Turn on M0000. (1234h is moved to D0000.)



M8010 is turned on even though D0000 and C000 are not equal.

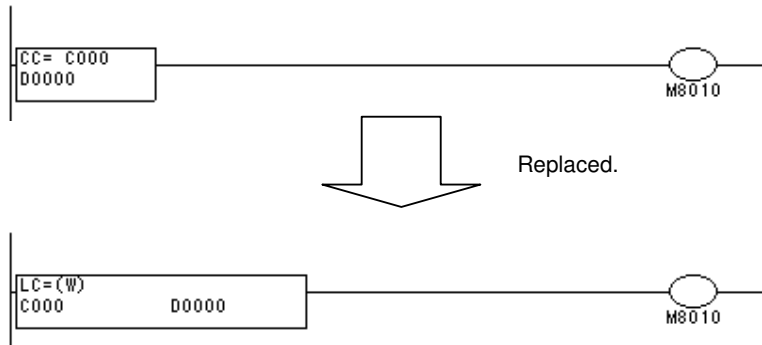
This problem occurs when the preset value of the CC(Counter Comparison) instruction is D0-D1999 or D8000-D8399.

Cause of this problem

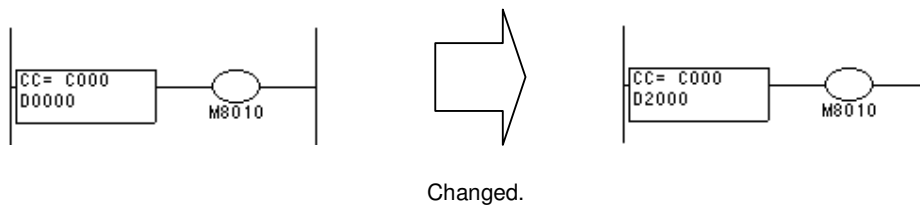
This is a bug in MicroSmart Pentra FC5A slim CPU firmware version 210, which is included in WindLDR version 5.32.

Temporary Countermeasure

1. Replace the CC instruction with the LC (Load Compare) instruction.



2. The Preset value of the CC instruction is changed excluding Data Register (D0-D1999) or Special Data Register (D8000-D8399).



Permanent Countermeasure

This bug is now fixed with WindLDR version 5.33 and FC5A firmware version 2.11.

FC5A firmware version 2.11 is included in WindLDR 5.33.