

Maximum Value

Given variables A and B, each holding an 8-bit signed 2's complement number. Write a program to find the maximum value and put into variable C. Example if A > B then C = A.

$$C = \text{Max}(A, B)$$

Option B: Basic implementation of if-then-else statement. Structure modified to immediately store result.

Simulation of the unsigned problem C = Max(27,07), where the answer should equal 27 (0x1B).

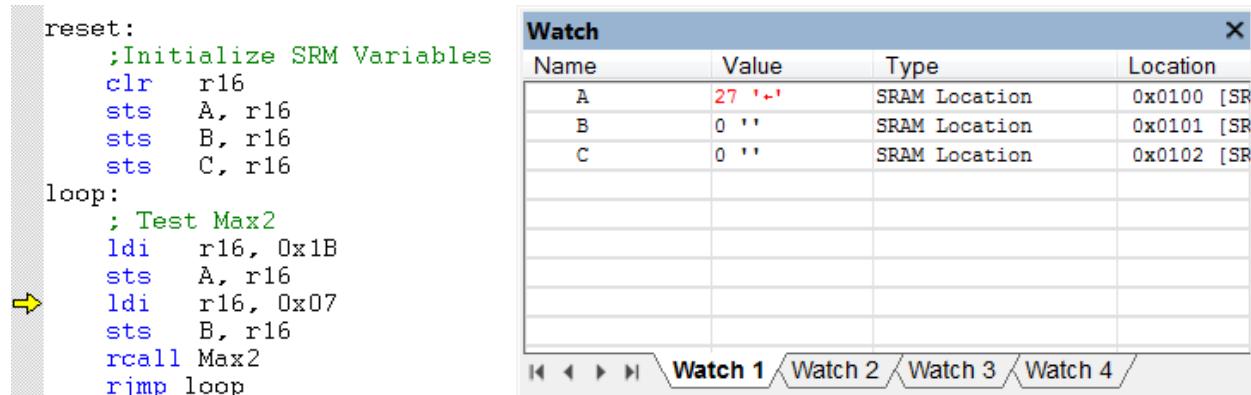


Figure 1: Start of Maximum program with variable A initialized to 0x1B (27_{10})

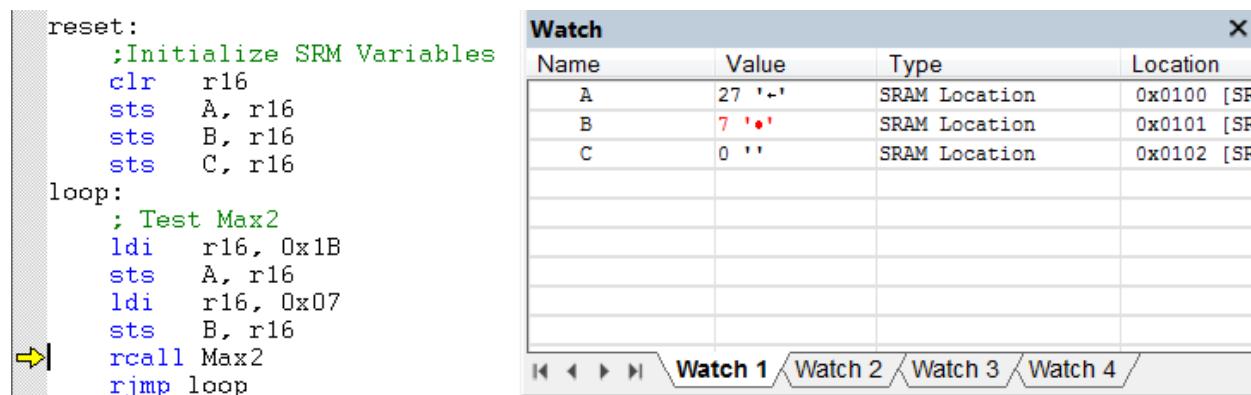


Figure 2: variable B is initialized to 0x07 (07₁₀)

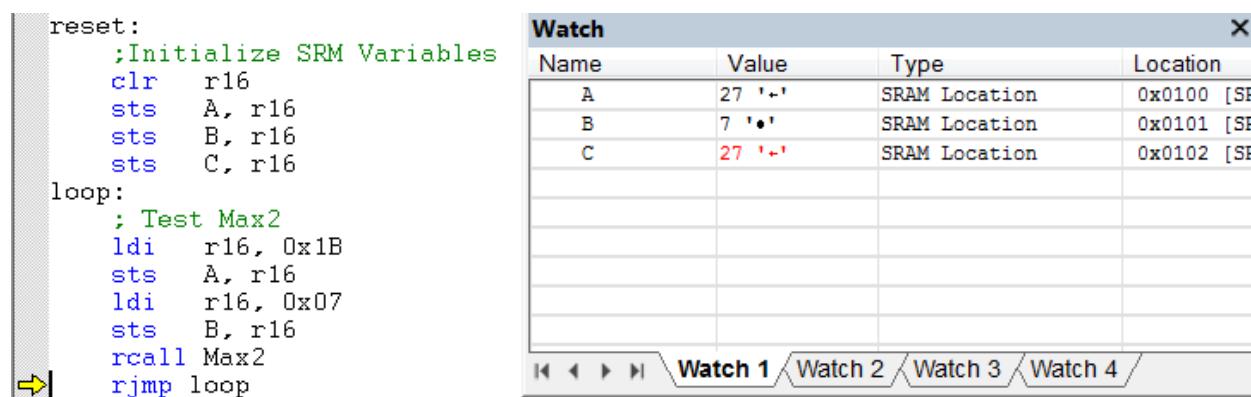


Figure 3: End of Maximum program with variable C containing 0x1B (27_{10})