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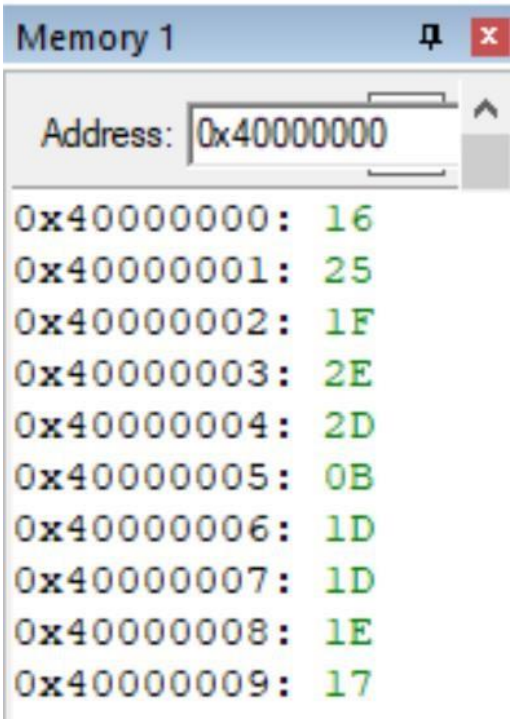
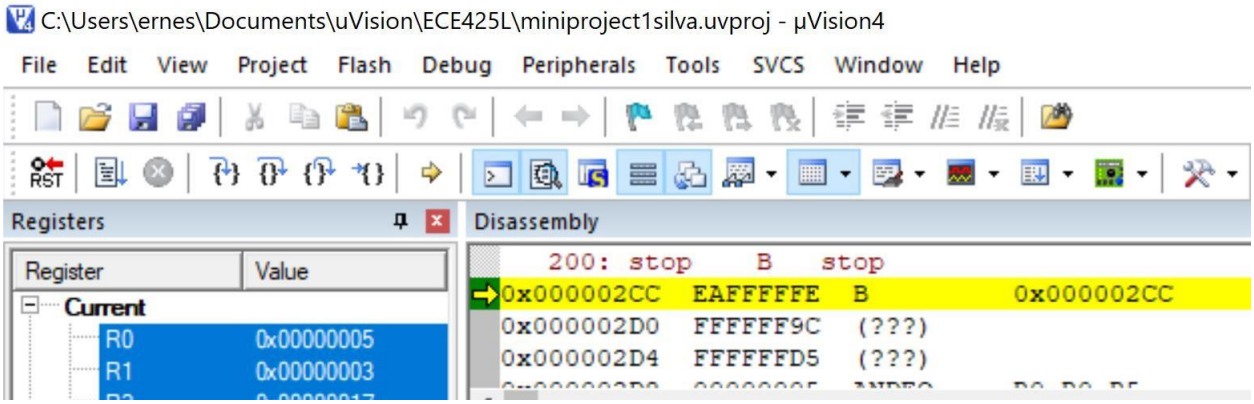
BEST/WORSE CURVE FIT

MEMORY



REGISTER BEST/WORSE



R0 contains the best value index which is set5 containing the value of 0B.

R1 contains the worst value index which is set3 containing the value of 2E.

OUTPUT Verification using MATLAB

C: ▸ Users ▸ ernes ▸ OneDrive ▸ Documents ▸ MATLAB

```
>> input=[-100, -43, 5, 20, 5, -15, -60, -148, -268, -340];
set0=[-95, -39, 1, 20, 7, -15, -55, -148, -266, -340];
set1=[-98, -38, 2, 20, 9, -13, -57, -152, -264, -330];
set2=[-105, -40, 5, 21, 6, -14, -63, -150, -260, -333];
set3=[-106, -41, 5, 15, 6, -12, -66, -141, -261, -331];
set4=[-101, -42, 4, 27, 8, -19, -69, -139, -262, -344];
set5=[-99, -43, 5, 20, 4, -17, -61, -144, -269, -341];
set6=[-102, -49, 7, 24, 4, -16, -60, -145, -270, -348];
set7=[-95, -39, 5, 22, 3, -15, -62, -148, -272, -330];
set8=[-96, -35, 9, 19, 5, -14, -58, -149, -272, -335];
set9=[-100, -43, 6, 18, 5, -14, -55, -140, -274, -340];
out0=sum(abs(input-set0));
out1=sum(abs(input-set1));
out2=sum(abs(input-set2));
out3=sum(abs(input-set3));
out4=sum(abs(input-set4));
out5=sum(abs(input-set5));
out6=sum(abs(input-set6));
out7=sum(abs(input-set7));
out8=sum(abs(input-set8));
out9=sum(abs(input-set9));
```

Output of MATLAB code

Workspace

Name	Value
input	[-100,-...
out0	22
out1	37
out2	31
out3	46
out4	45
out5	11
out6	29
out7	29
out8	30
out9	23

All output in MATLAB are the decimal values of the hex values found in memory.

Out5 is the smallest value out of all the outputs which verifies the 5 in register 0.

This means that set5 is the best match curve to the input set.

Out3 is the largest value which verifies the value 3 in register 1.

This means that set3 is the worst match curve to the input set.