University of Central Florida

Department of Computer Science

CDA 5106: Spring 2020

Machine Problem 2: Branch Prediction

by

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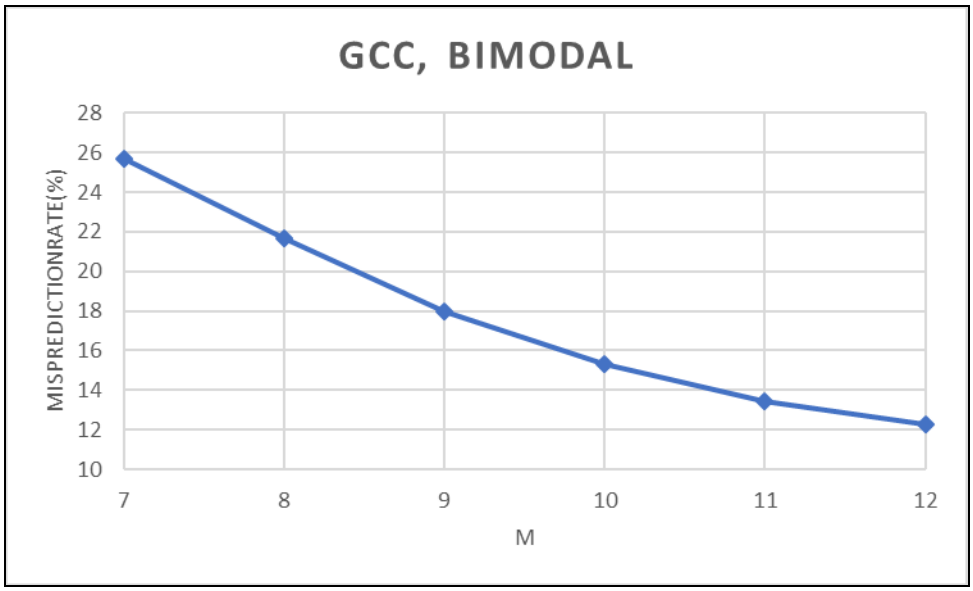
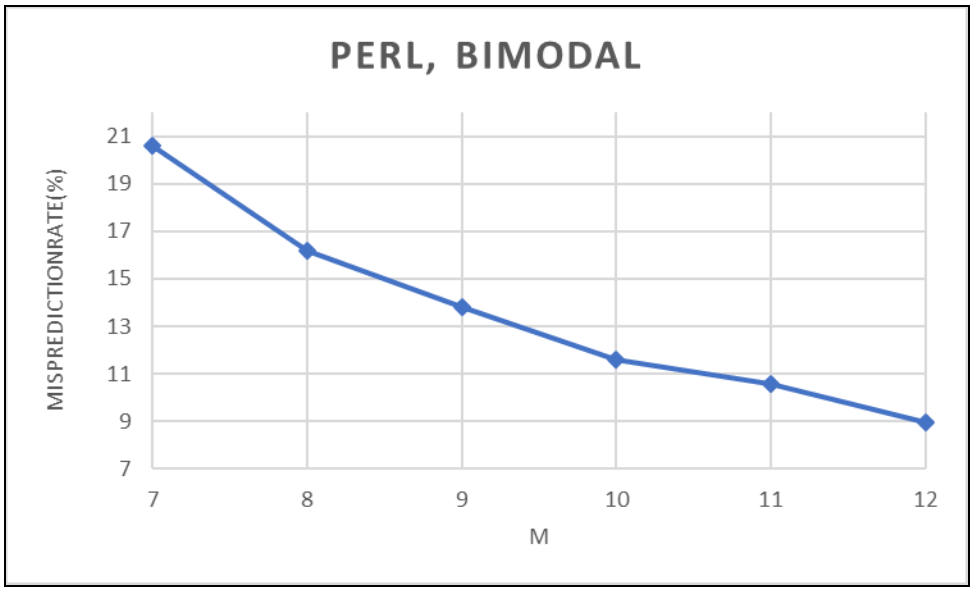
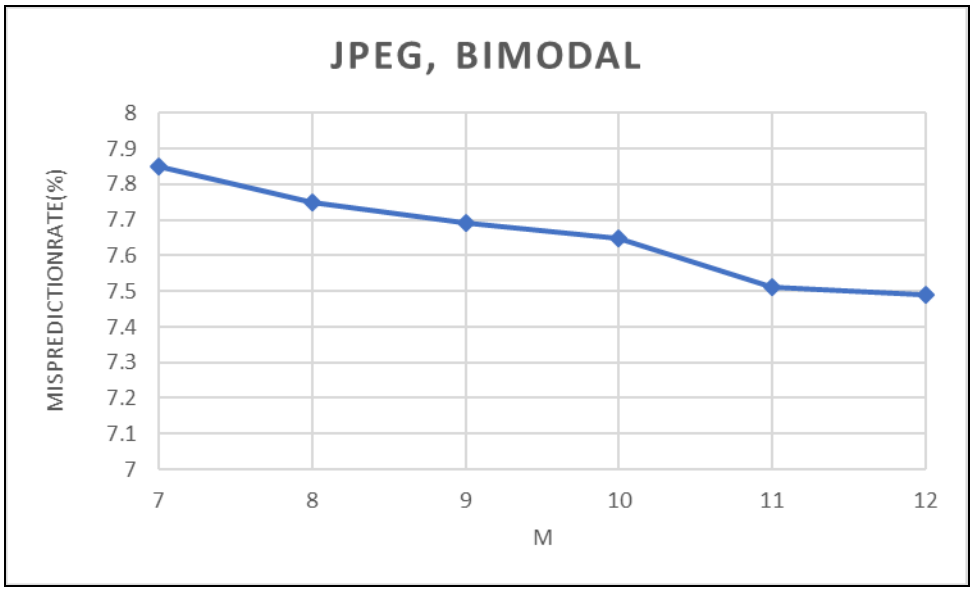
Honor Pledge: "I have neither given nor received unauthorized aid on this test or assignment."

Student's electronic signature: Siddharth Mal
(sign by typing your name)

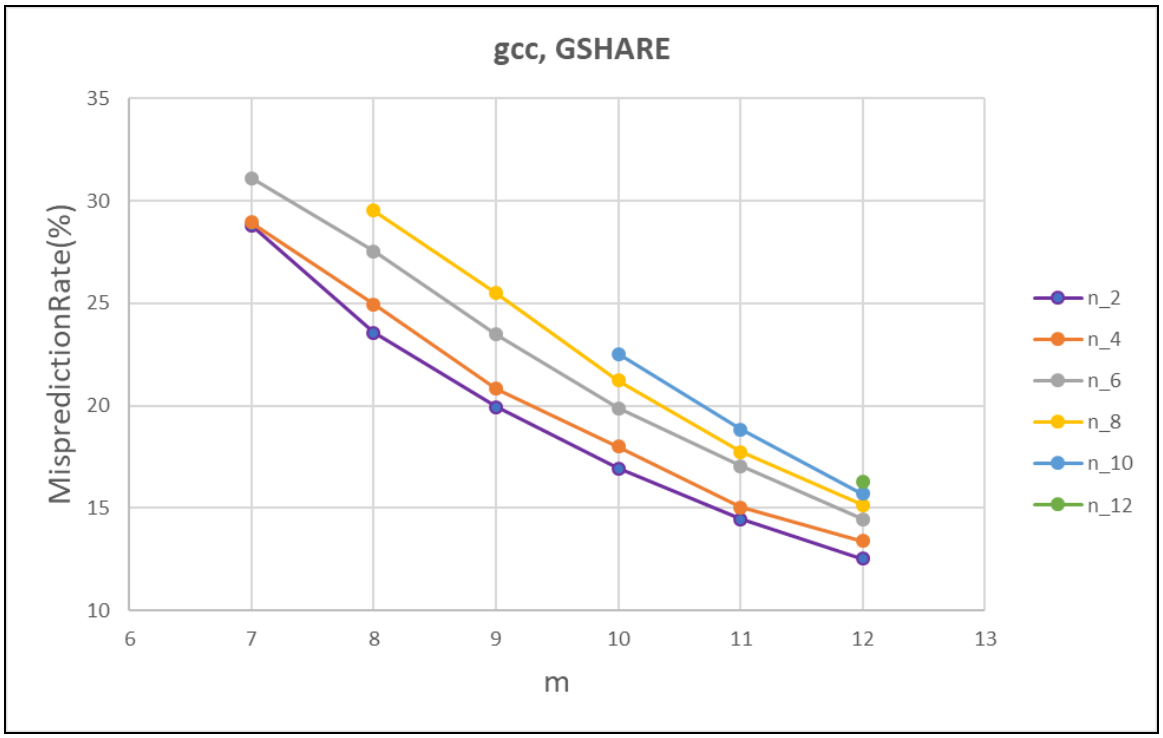
Graphs for Bimodal:

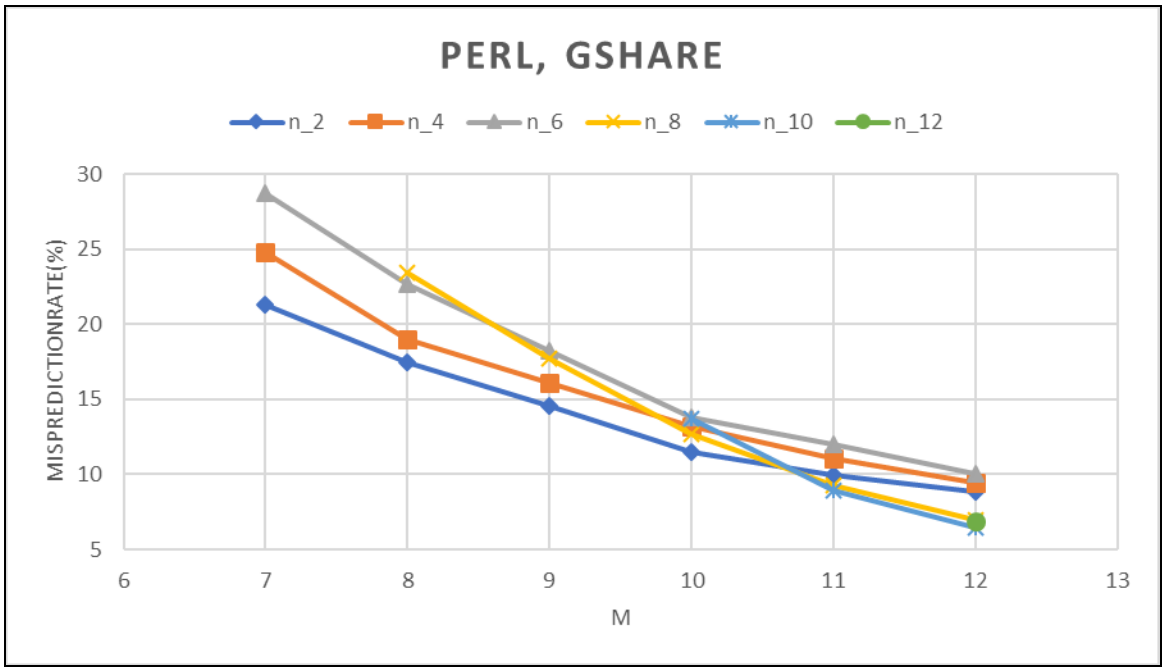

GCC, BIMODAL
MISPREDICTIONRATE(%)
28
26
24
22
20
18
16
14
12
10
7
8
9
10
11
12
M

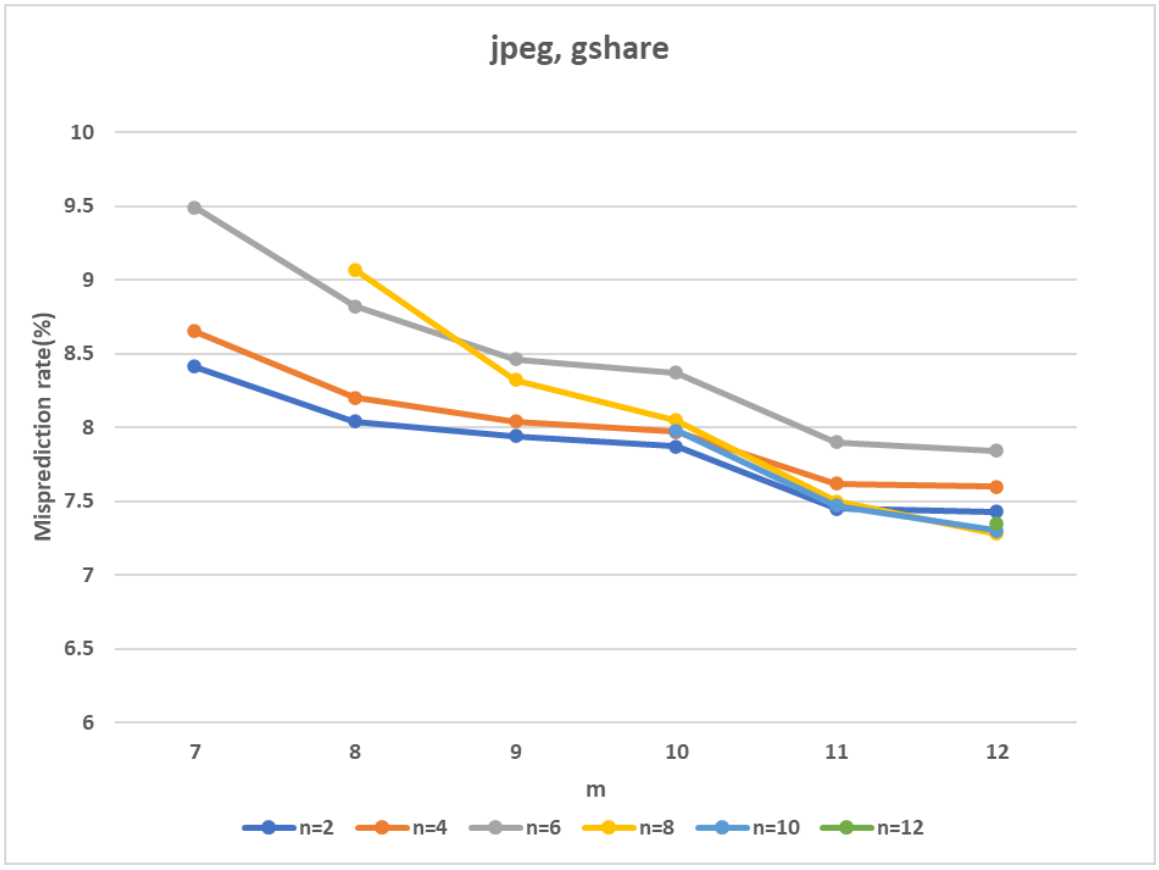

PERL, BIMODAL
MISPREDICTIONRATE(%)
21
19
17
15
13
11
9
7
7
8
9
10
11
12
M



Graphs for GSHARE:




PERL, GSHARE
n_2
n_4
n_6
n_8
n_10
n_12
MISPREDICTIONRATE(%)
30
25
20
15
10
5
6
7
8
9
10
11
12
13
M


jpeg, gshare
Misprediction rate(%)
10
9.5
9
8.5
8
7.5
7
6.5
6
7
8
9
10
11
12
m
n=2
n=4
n=6
n=8
n=10
n=12