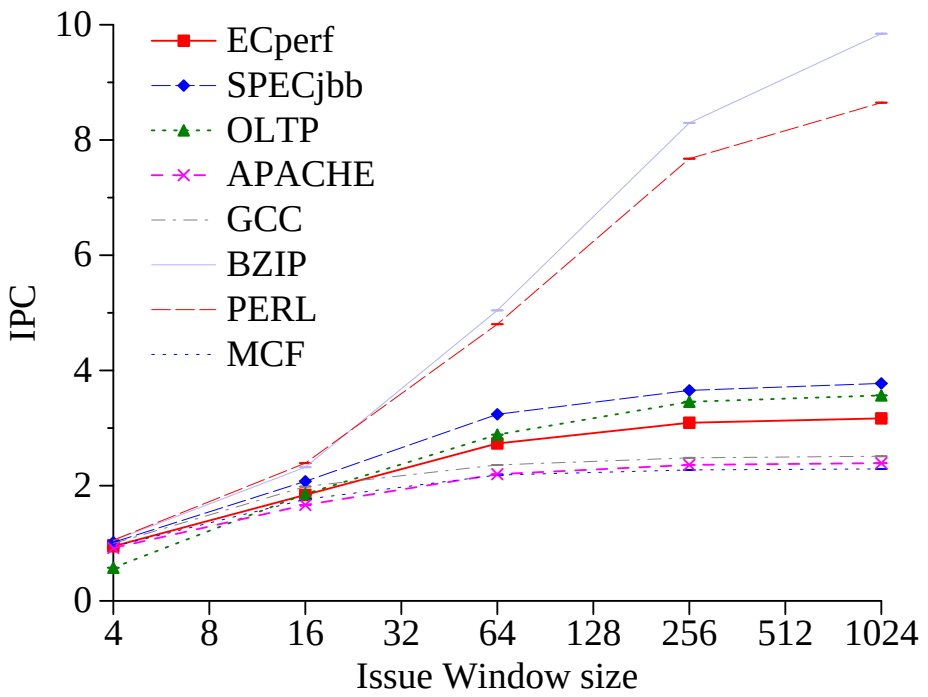
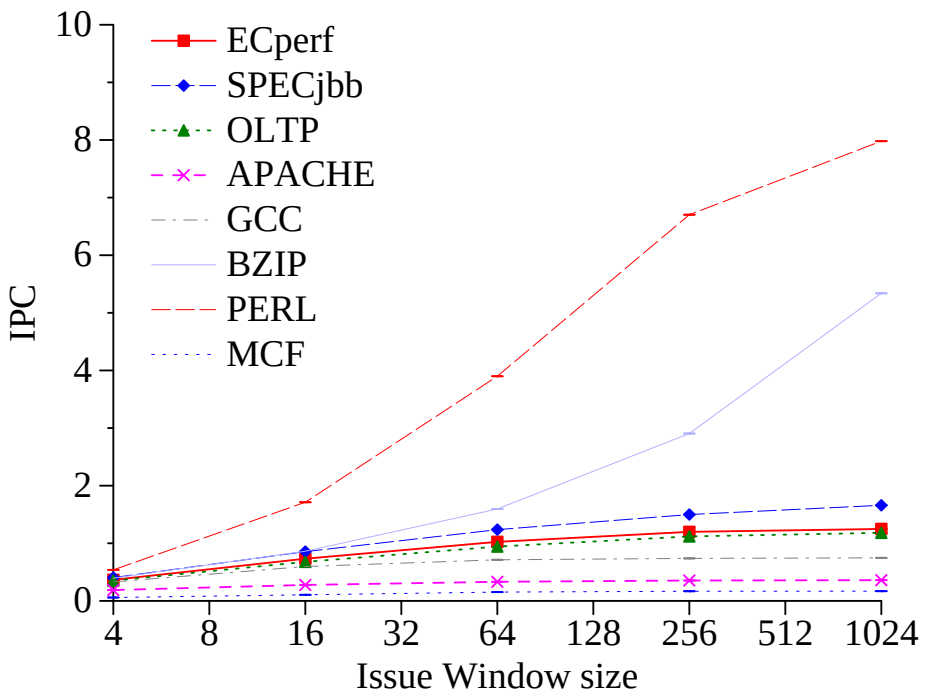
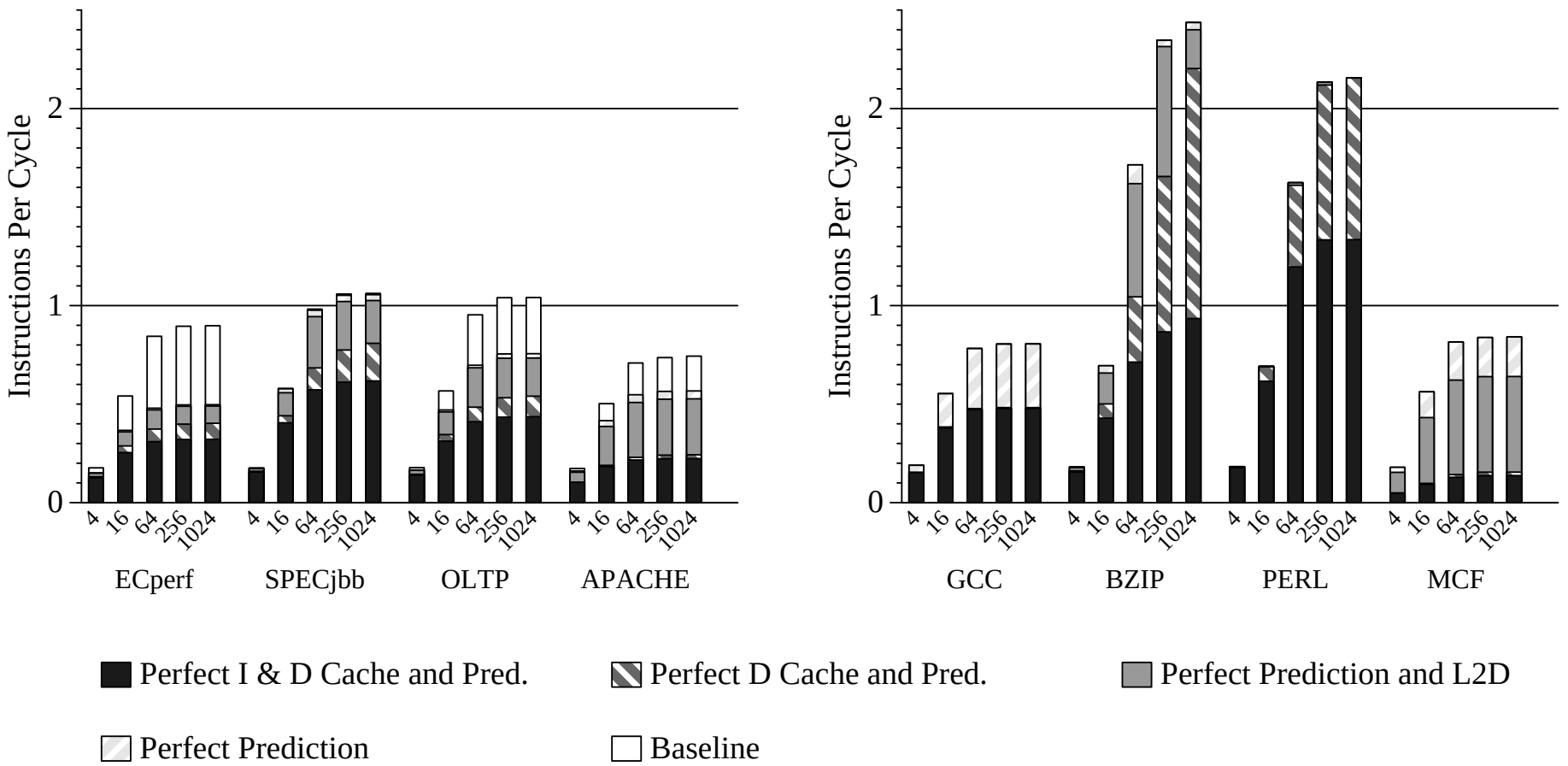
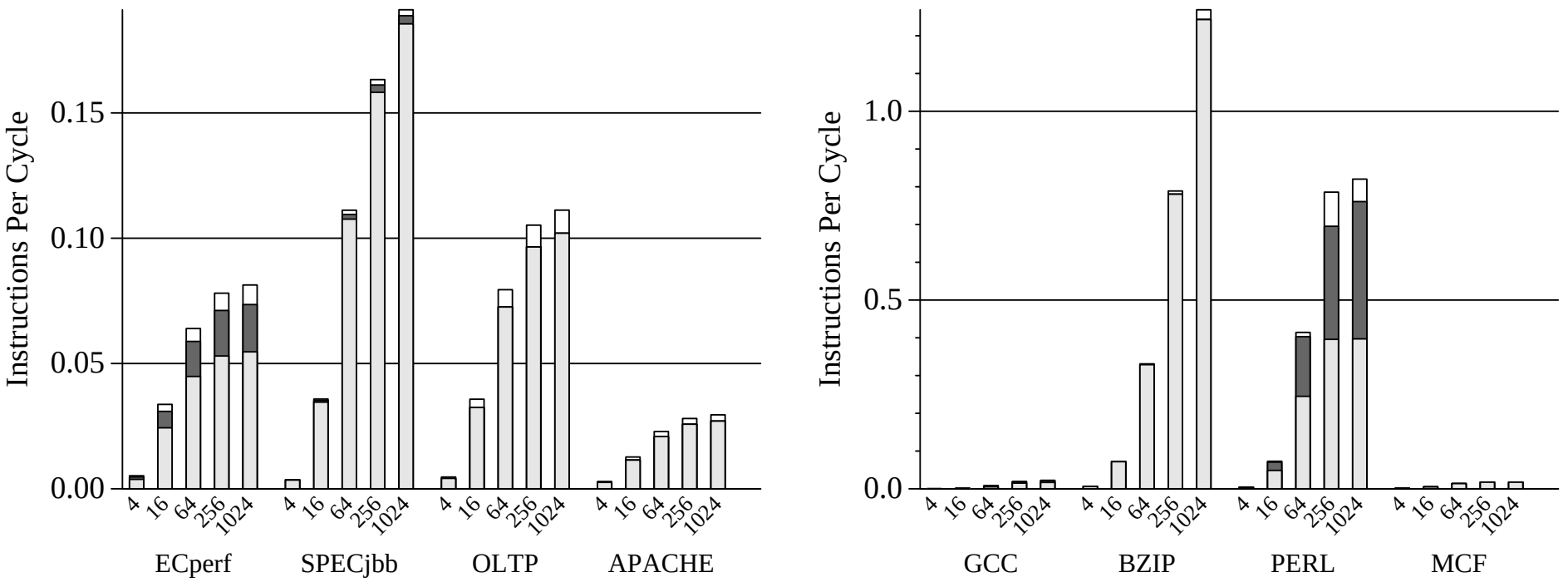
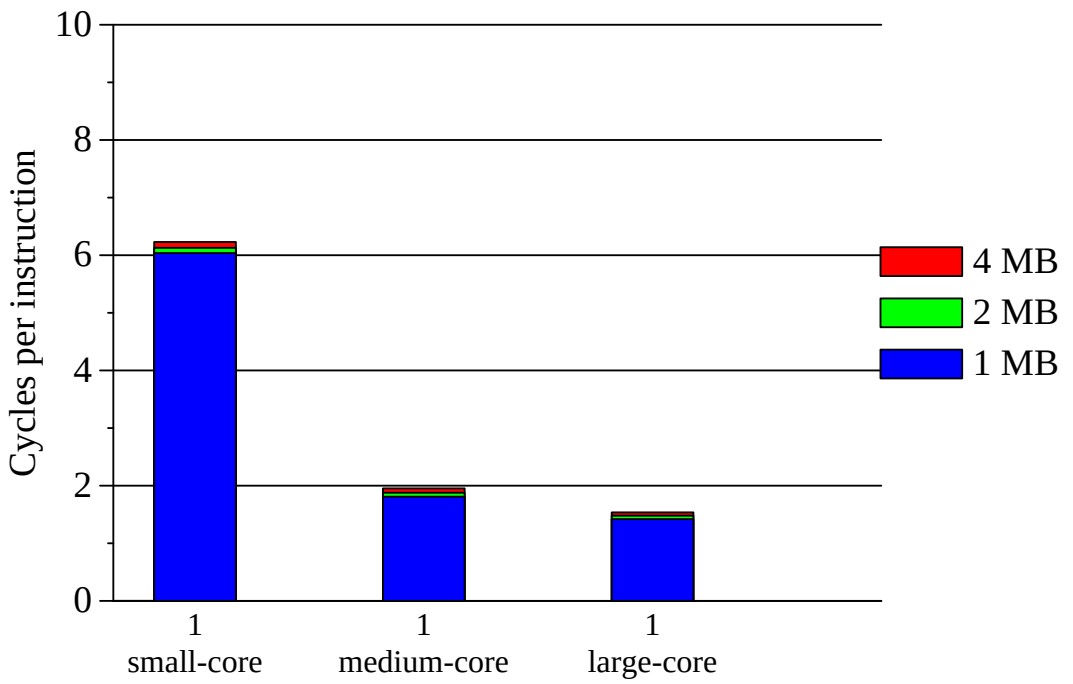
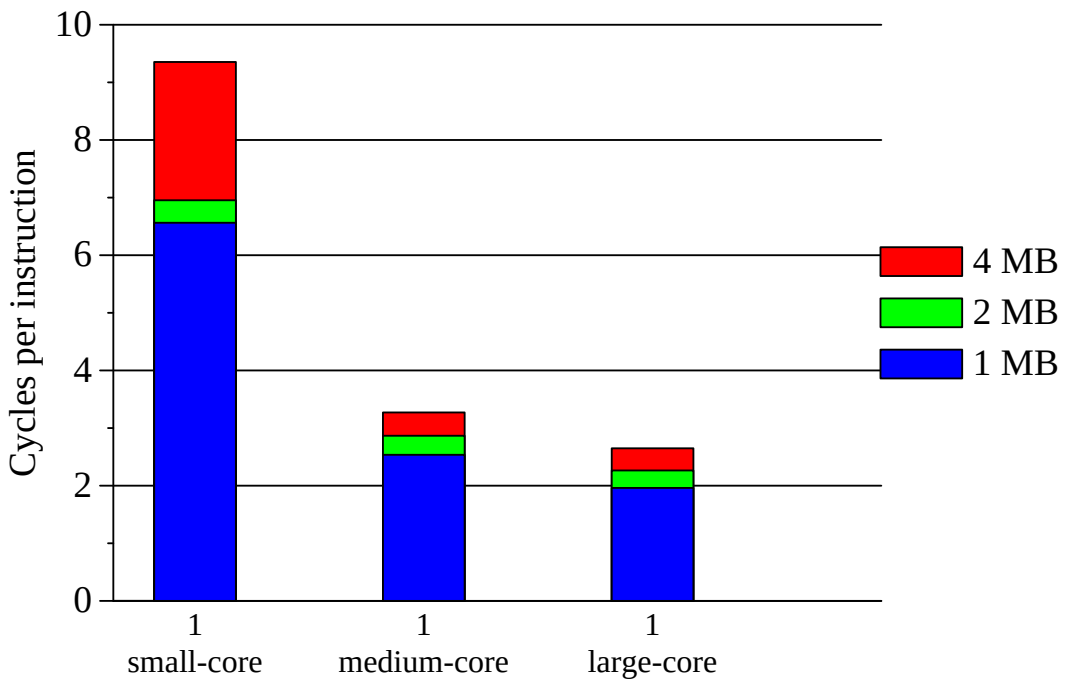

10
8
6
4
2
0
IPC
ECperf
SPECjbb
OLTP
APACHE
GCC
BZIP
PERL
MCF
4
8
16
32
64
128
256
512
1024
Issue Window size

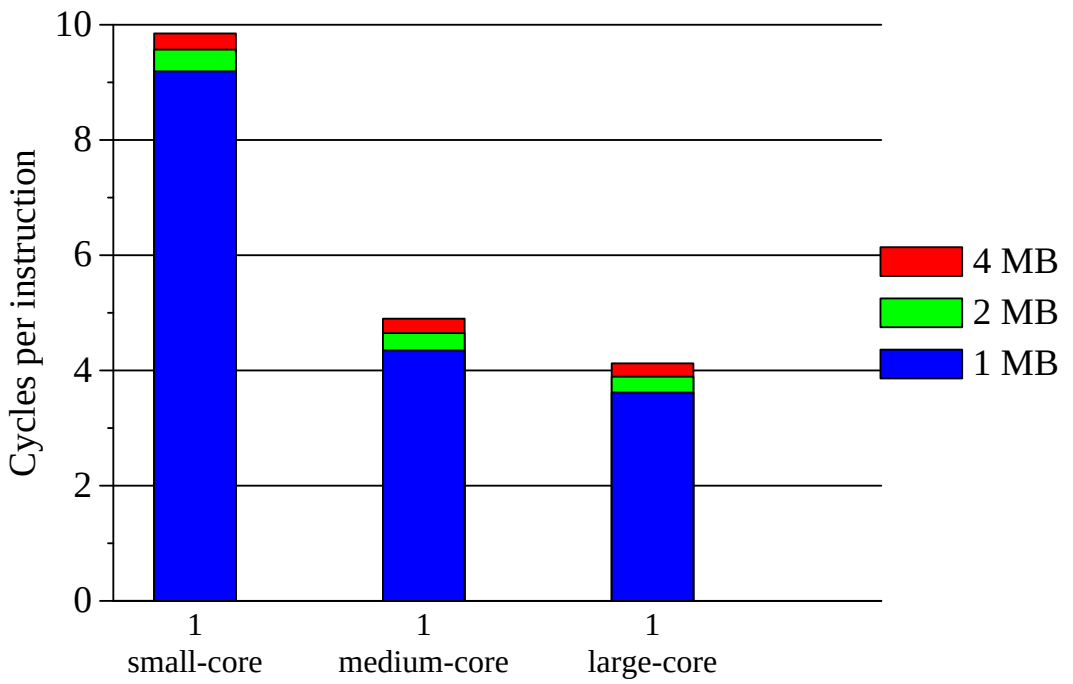

10
8
6
4
2
0
IPC
ECperf
SPECjbb
OLTP
APACHE
GCC
BZIP
PERL
MCF
4
8
16
32
64
128
256
512
1024
Issue Window size

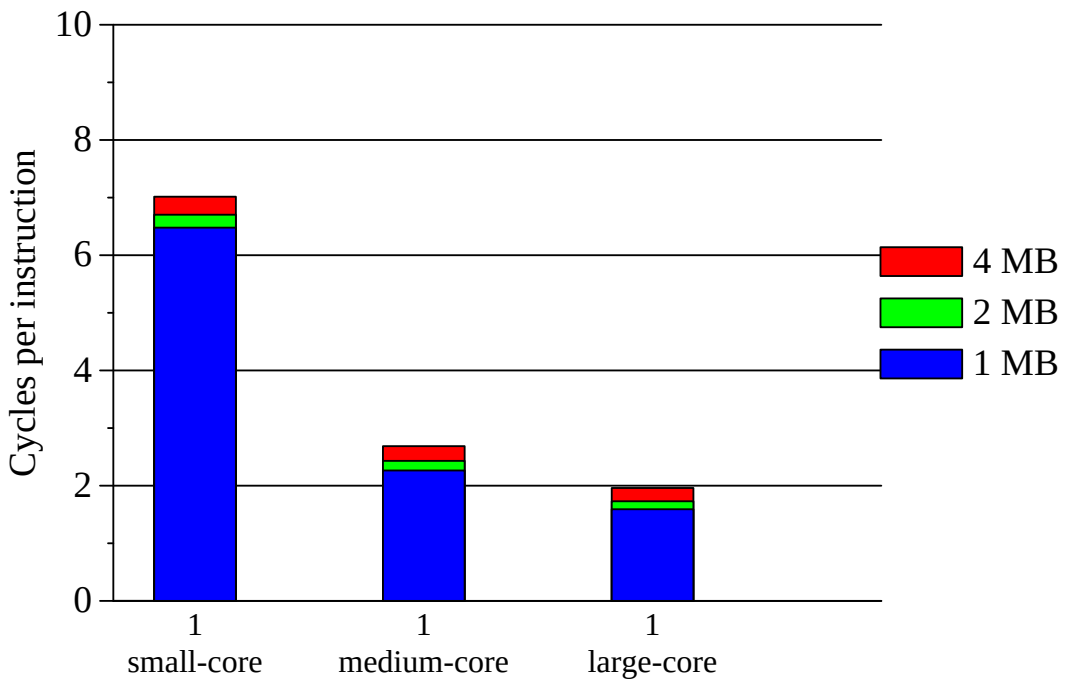

Instructions Per Cycle
0
1
2
4
16
64
256
1024
ECperf
SPECjbb
OLTP
APACHE
GCC
BZIP
PERL
MCF
Perfect I & D Cache and Pred.
Perfect D Cache and Pred.
Perfect Prediction and L2D
Perfect Prediction
Baseline


Instructions Per Cycle
0.15
0.10
0.05
0.00
4
16
64
256
1024
ECperf
SPECjbb
OLTP
APACHE
Instructions Per Cycle
1.0
0.5
0.0
GCC
BZIP
PERL
MCF
Perfect Direction, Branch Target and Return Address Pred.
Perfect Direction & Branch Target Prediction
Perfect Direction Prediction


Cycles per instruction
10
8
6
4
2
0
4 MB
2 MB
1 MB
1
small-core
1
medium-core
1
large-core


Cycles per instruction
10
8
6
4
2
0
4 MB
2 MB
1 MB
1
small-core
1
medium-core
1
large-core


Cycles per instruction
10
8
6
4
2
0
4 MB
2 MB
1 MB
1
small-core
1
medium-core
1
large-core


Cycles per instruction
10
8
6
4
2
0
4 MB
2 MB
1 MB
1
small-core
1
medium-core
1
large-core