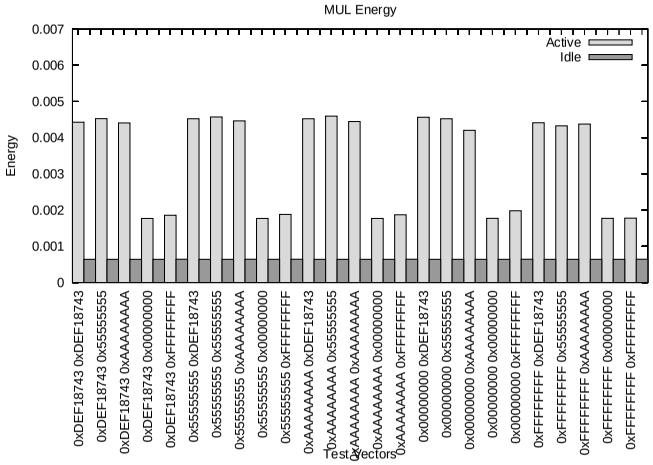
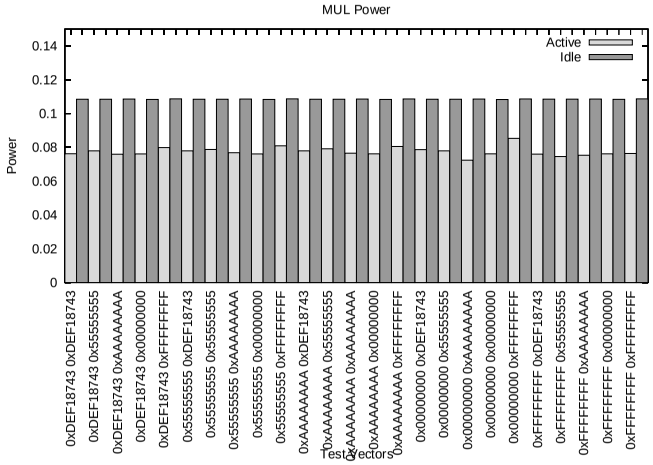
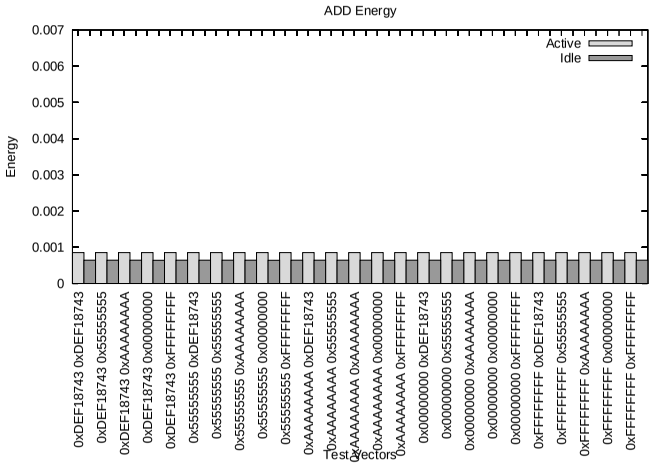
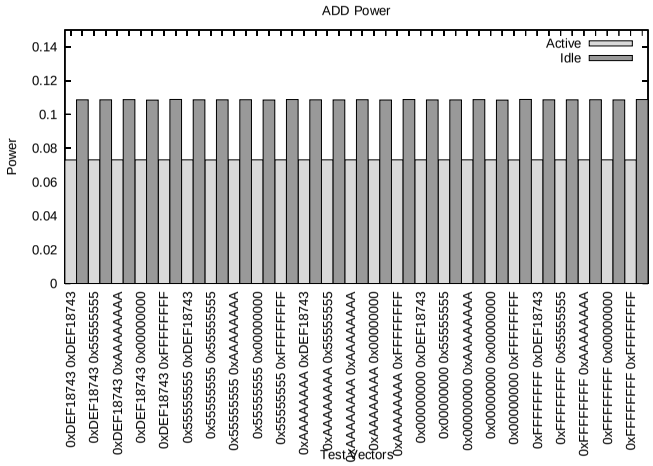
# Effect of Data on Energy in the Philips LPC2106

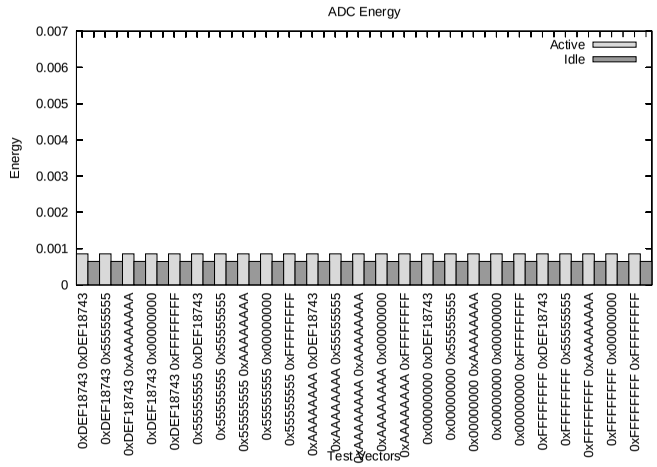
19th November 2003

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0.005
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0.003
0.002
0.001
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0xDEF18743 0x00000000
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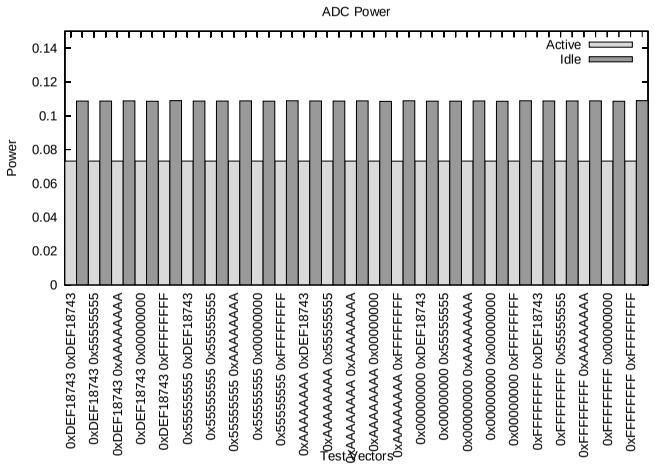
Test Vectors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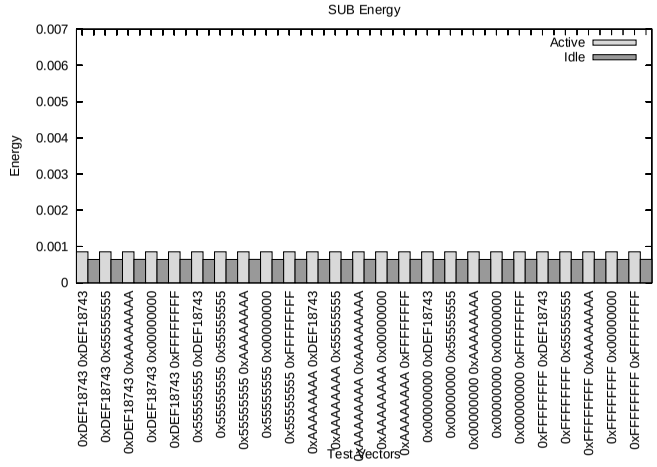
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0.001
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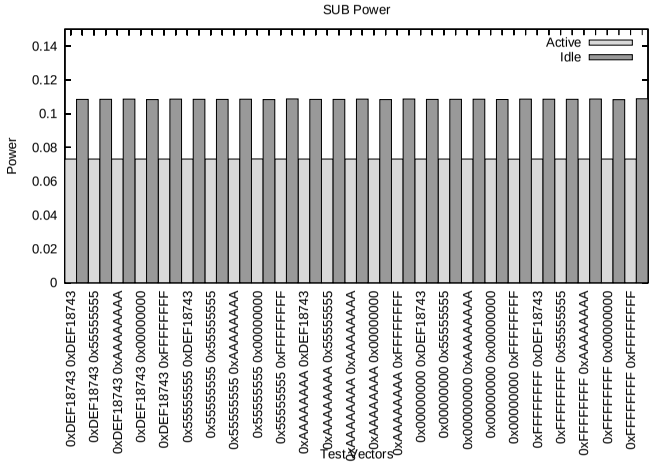
Test Vectors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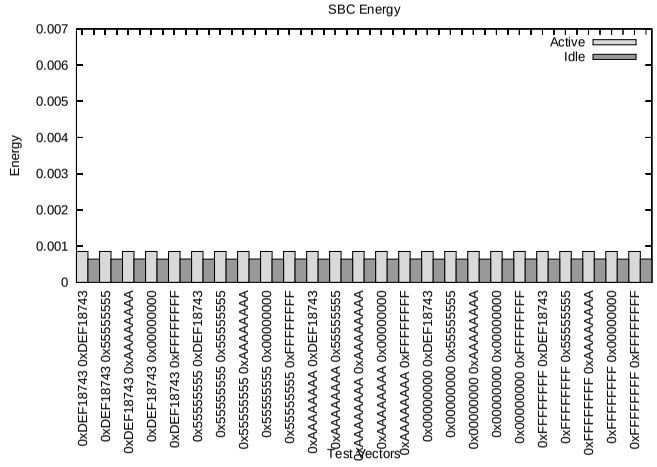
Test Vectors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0xDEF18743 0xAAAAAAAA
0xDEF18743 0x00000000
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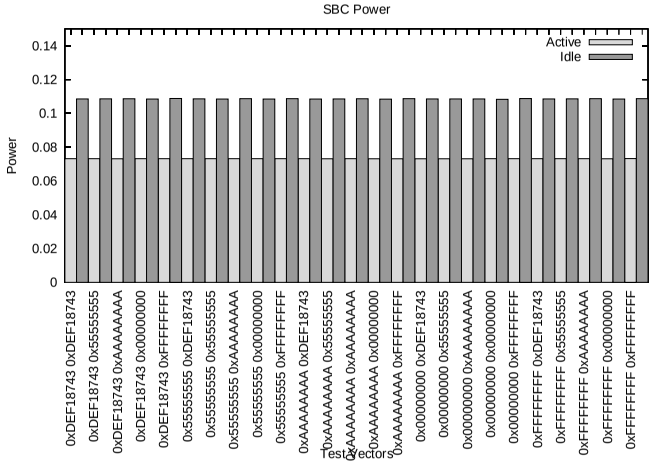
Test Vectors


SBC Power
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Power
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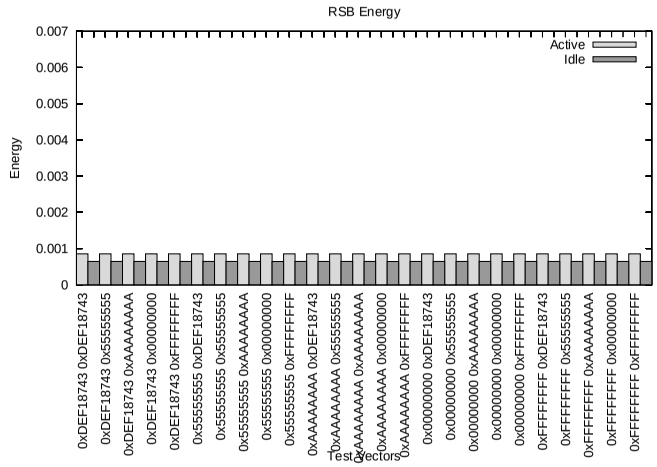
Test Vectors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Idle
Energy
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0.001
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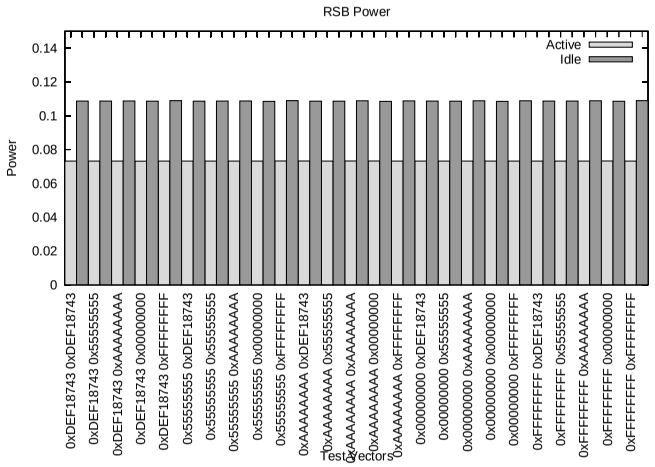
Test Vectors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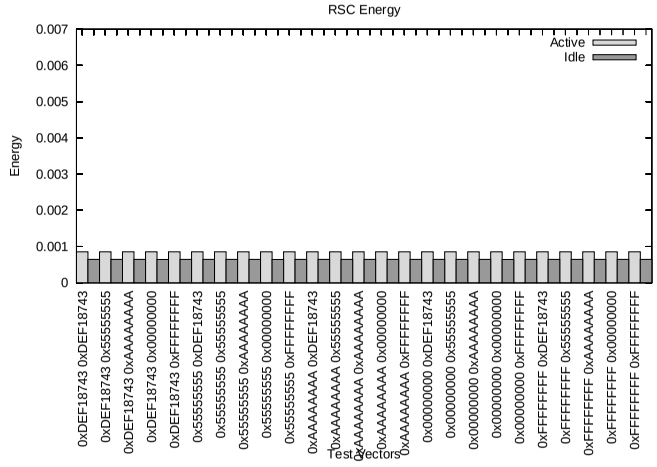
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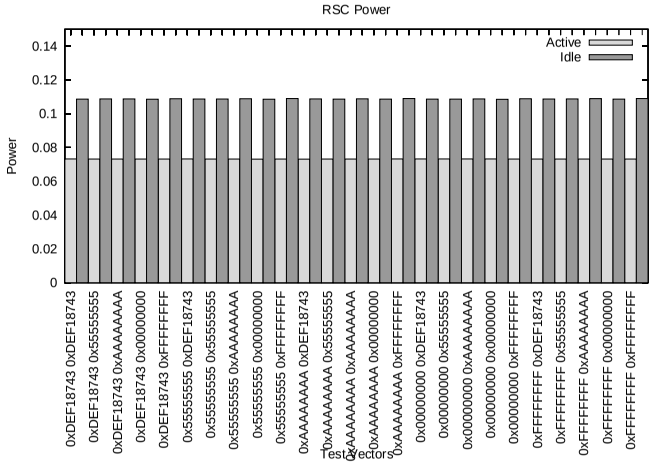
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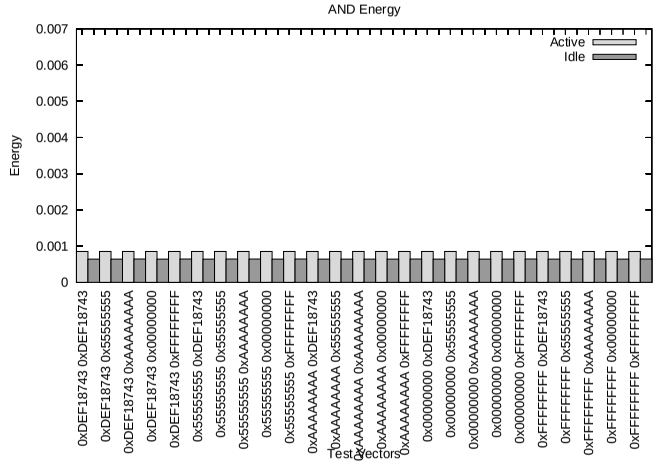
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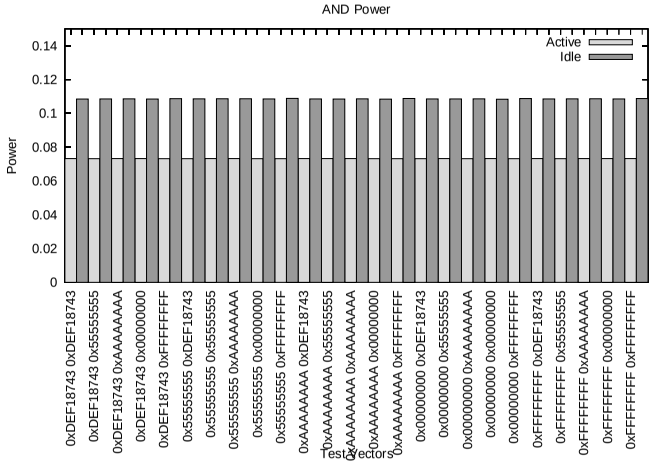
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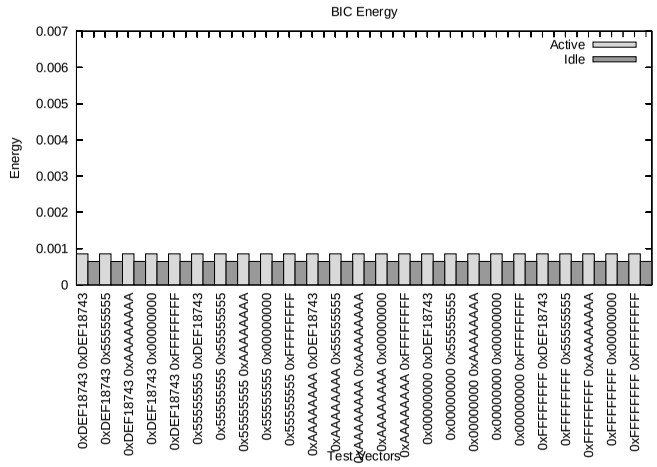
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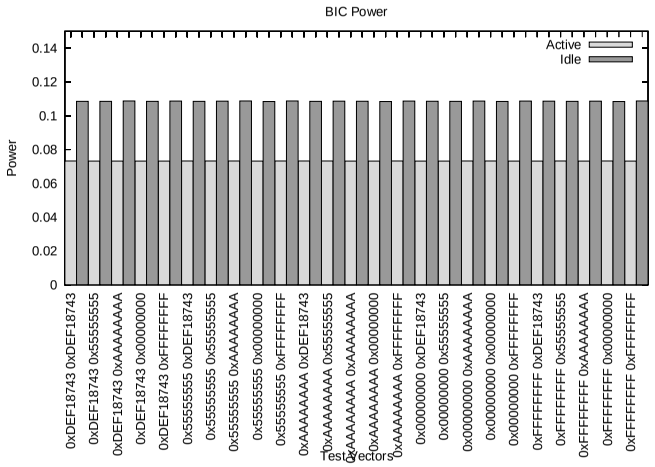
BIC Power
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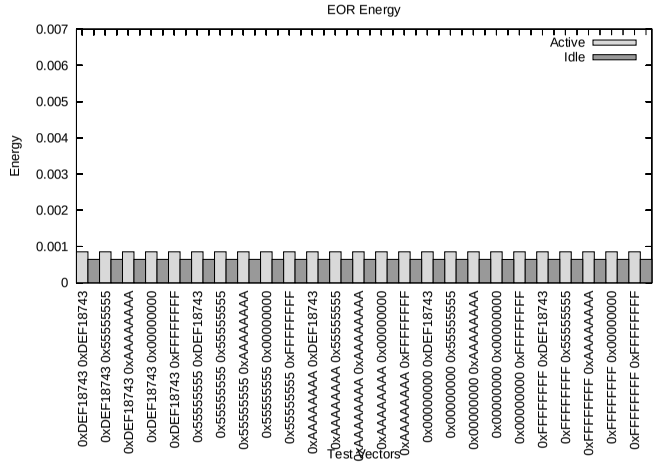
EOR Energy
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Energy
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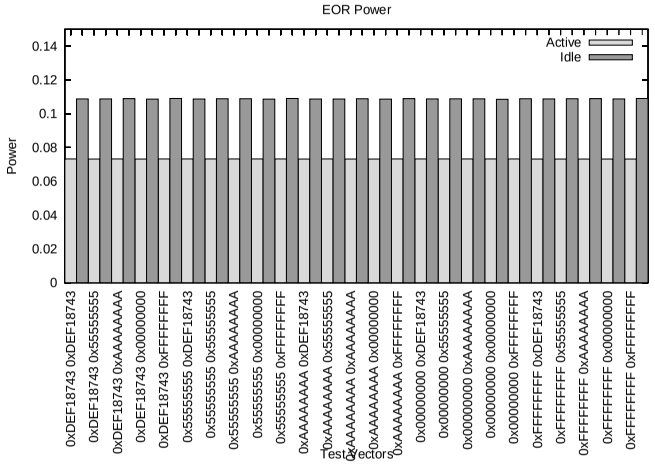
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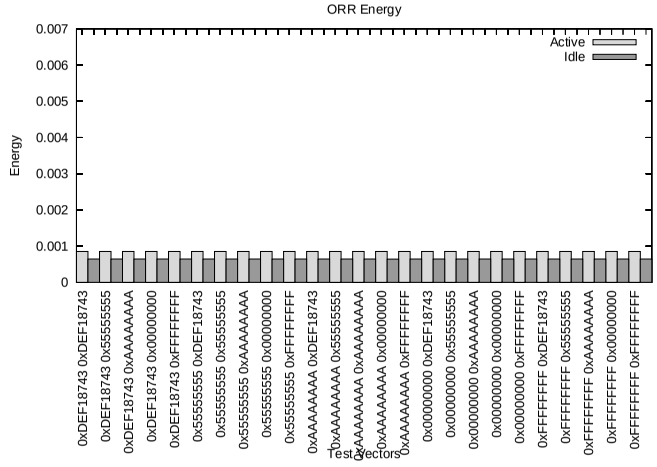
Test Vectors


ORR Energy
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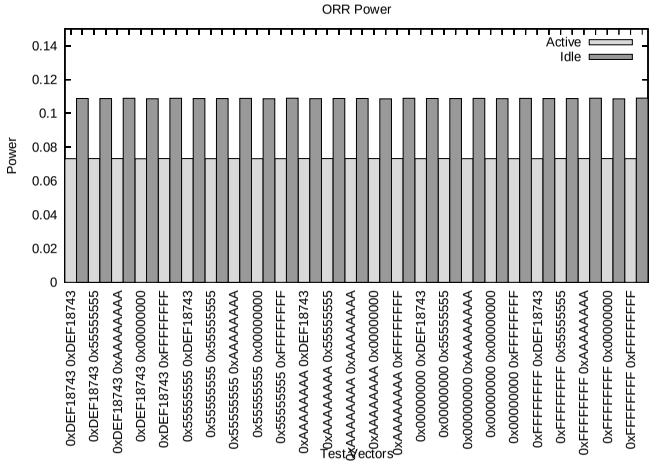
ORR Power
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Power
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0x55555555 0xFFFFFFFF
0xAAAAAAAA 0xDEF18743
0xAAAAAAAA 0x55555555
0xAAAAAAAA 0xAAAAAAAA
0xAAAAAAAA 0x00000000
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0x00000000 0xDEF18743
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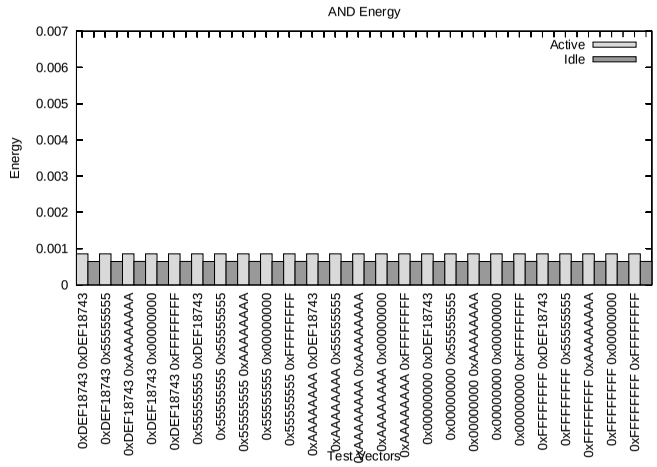
Test Vectors


AND Energy
Active
Idle
Energy
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0.006
0.005
0.004
0.003
0.002
0.001
0
0xDEF18743 0xDEF18743
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0xDEF18743 0x00000000
0xDEF18743 0xFFFFFFFF
0x55555555 0xDEF18743
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0x55555555 0xFFFFFFFF
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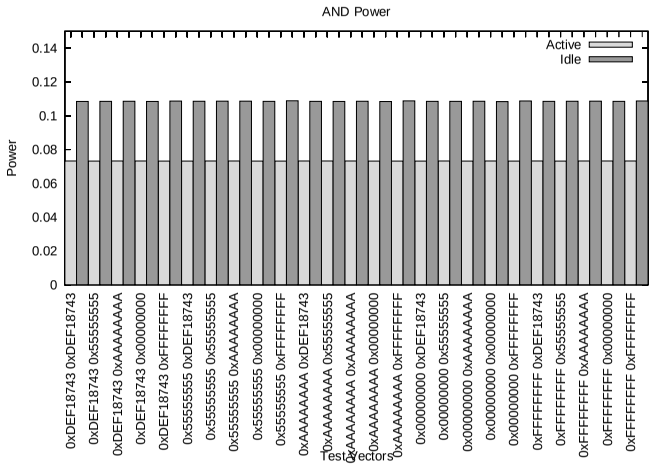
Test Vectors


AND Power
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0.08
0.06
0.04
0.02
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0xDEF18743 0x55555555
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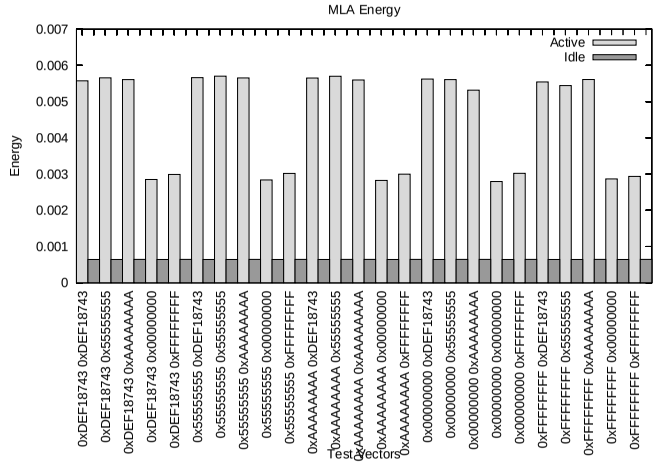
Test Vectors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0.005
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0.001
0
0xDEF18743 0xDEF18743
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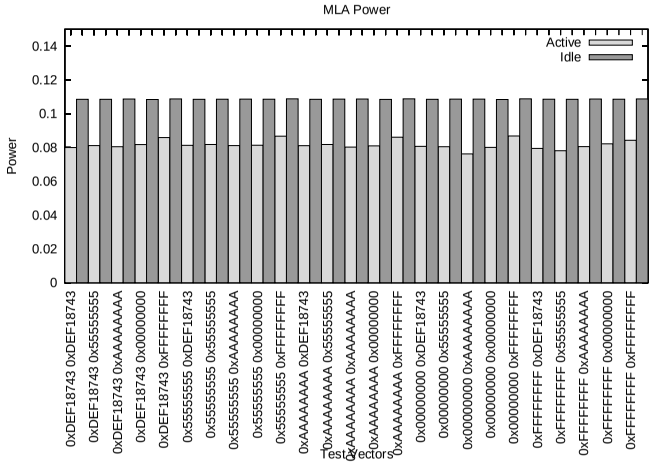
Test Vectors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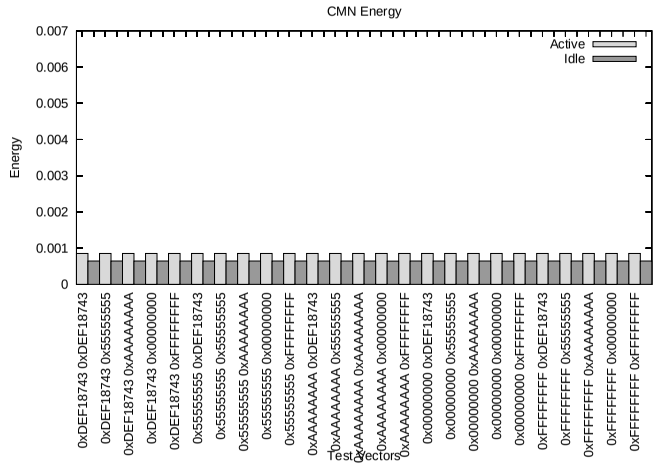
Test Vectors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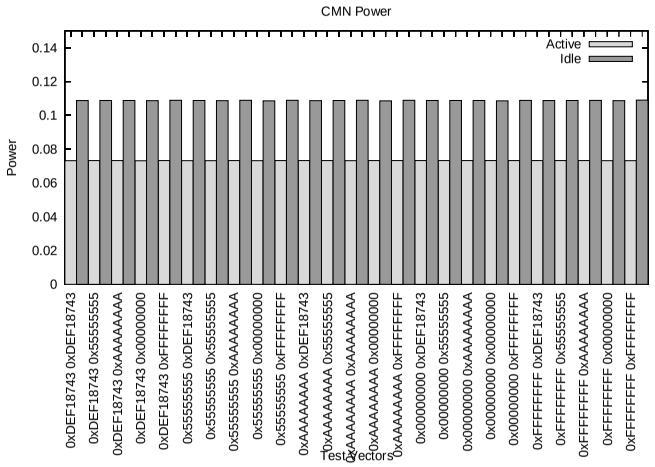
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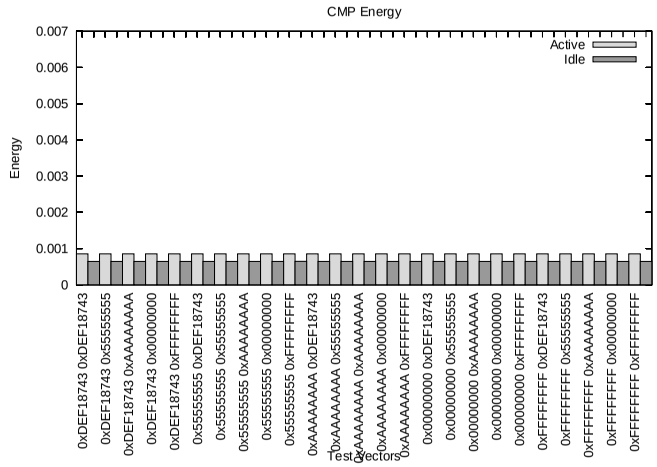
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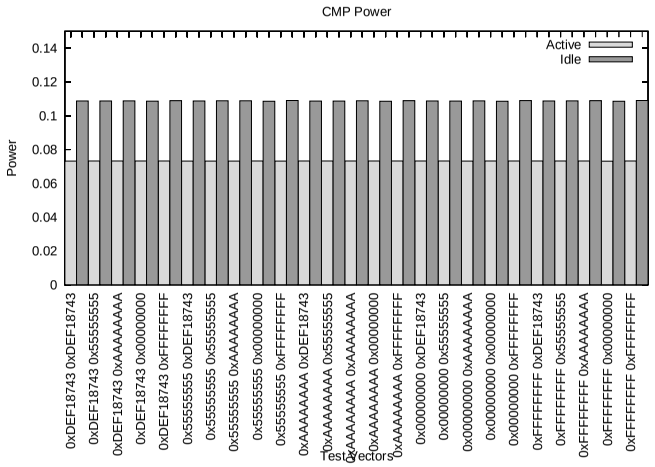
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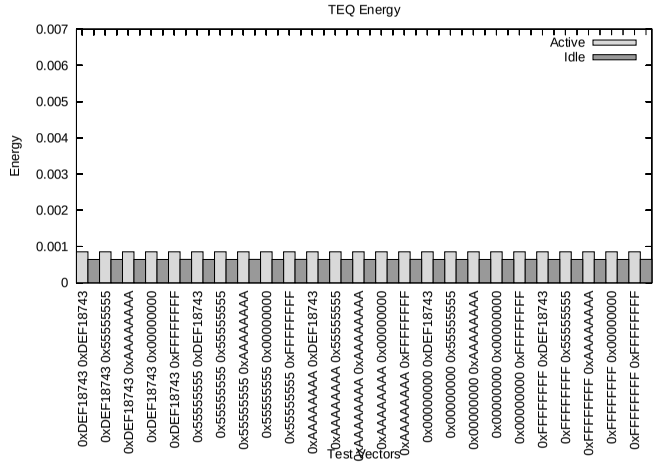
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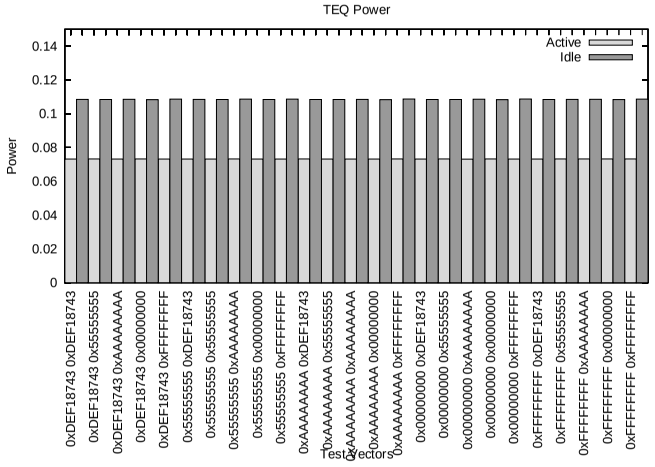
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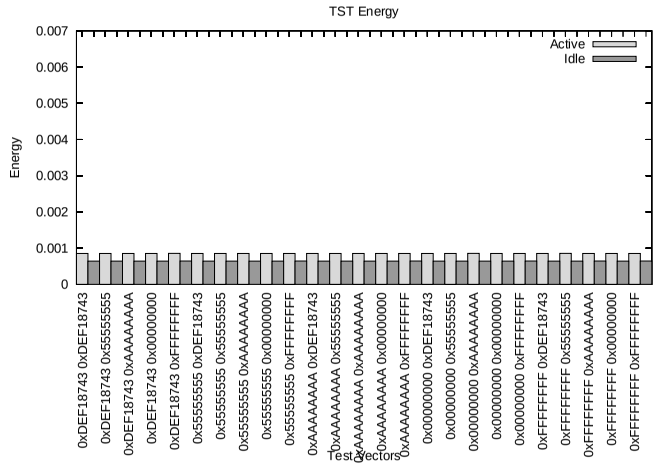
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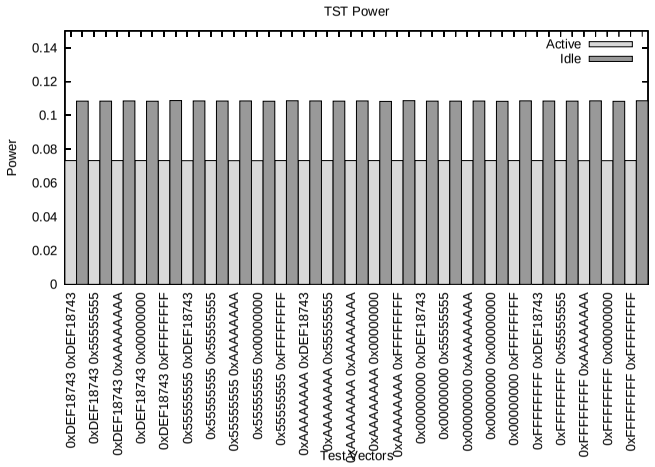
Test Vectors


TST Power
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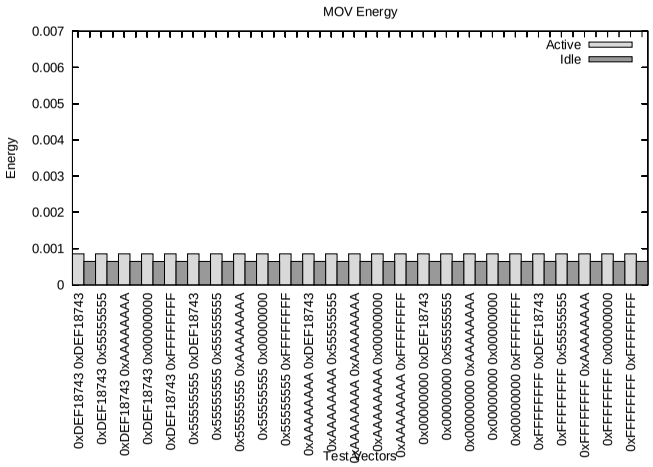
Test Vectors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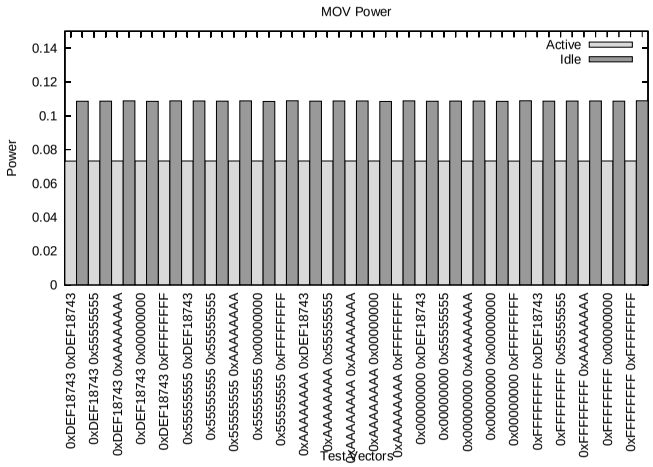
Test Vectors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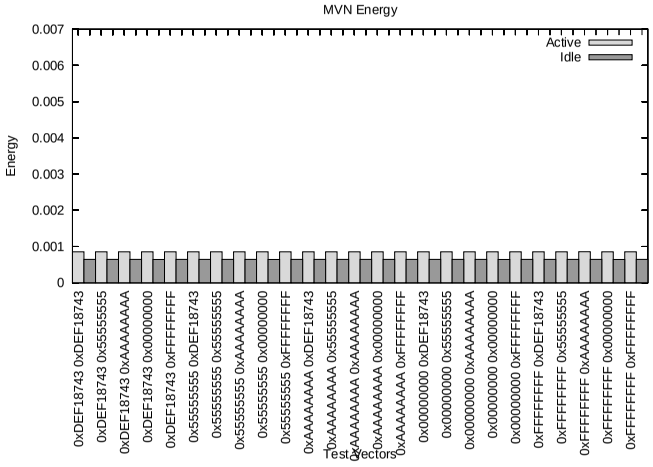
MVN Energy
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Energy
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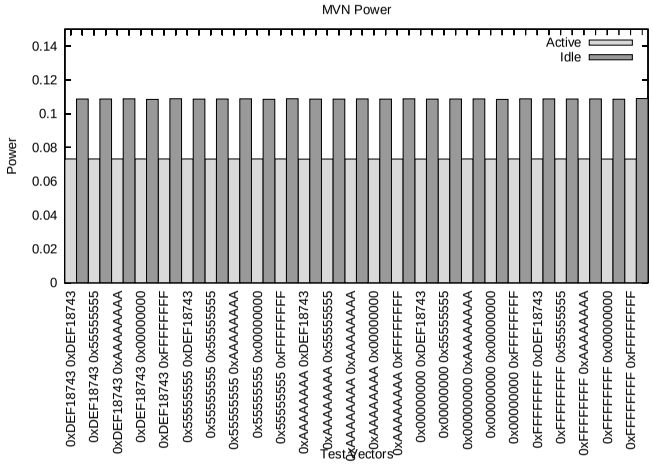
Test Vectors


MVN Power
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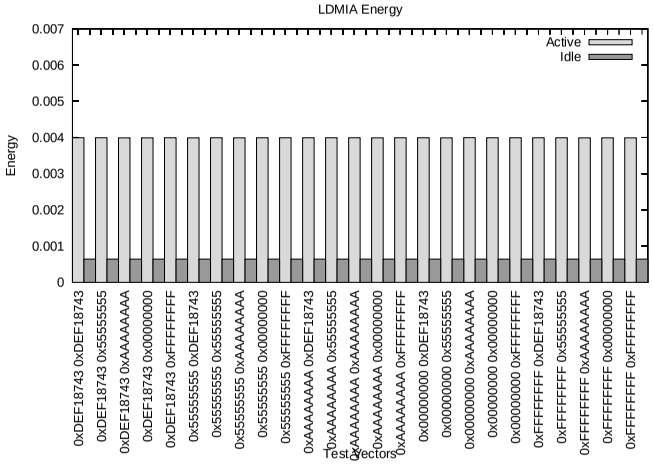
Test Vectors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Idle
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0.005
0.004
0.003
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0.001
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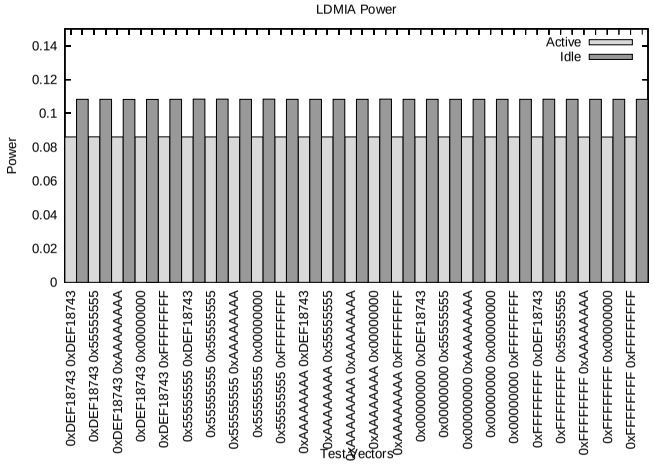
Test Vectors


LDMIA Power
Active
Idle
Power
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0.08
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0.02
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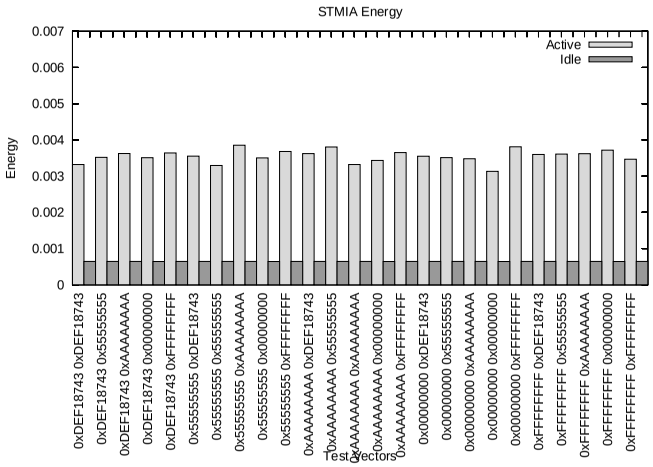
Test Vectors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Energy
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0xAAAAAAAA 0xDEF18743
0xAAAAAAAA 0x55555555
0xAAAAAAAA 0xAAAAAAAA
0xAAAAAAAA 0x00000000
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0x00000000 0xAAAAAAAA
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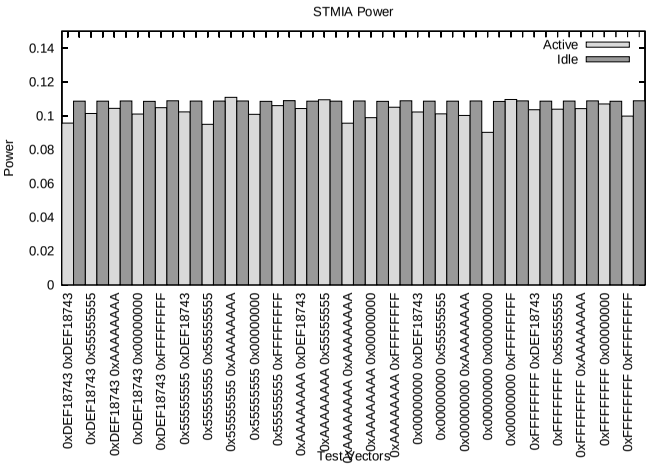
Test Vectors


STMIA Power
Active
Idle
Power
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0.02
0.04
0.06
0.08
0.1
0.12
0.14
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0xDEF18743 0x55555555
0xDEF18743 0xAAAAAAAA
0xDEF18743 0x00000000
0xDEF18743 0xFFFFFFFF
0x55555555 0xDEF18743
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0x55555555 0xAAAAAAAA
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0x00000000 0x00000000
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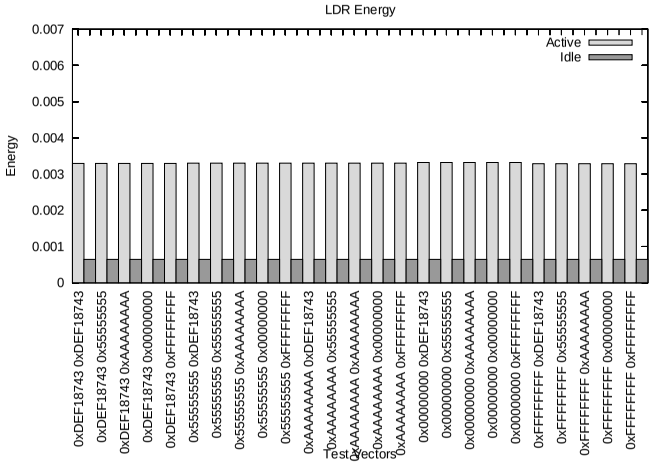
0xFFFFFFFF 0x00000000
0xFFFFFFFF 0xFFFFFFFF
Test Vectors


LDR Energy
Active
Idle
Energy
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0.001
0.002
0.003
0.004
0.005
0.006
0.007
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0xDEF18743 0x55555555
0xDEF18743 0xAAAAAAAA
0xDEF18743 0x00000000
0xDEF18743 0xFFFFFFFF
0x55555555 0xDEF18743
0x55555555 0x55555555
0x55555555 0xAAAAAAAA
0x55555555 0x00000000
0x55555555 0xFFFFFFFF
0xAAAAAAAA 0xDEF18743
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0xAAAAAAAA 0xAAAAAAAA
0xAAAAAAAA 0x00000000
0xAAAAAAAA 0xFFFFFFFF
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0x00000000 0x55555555
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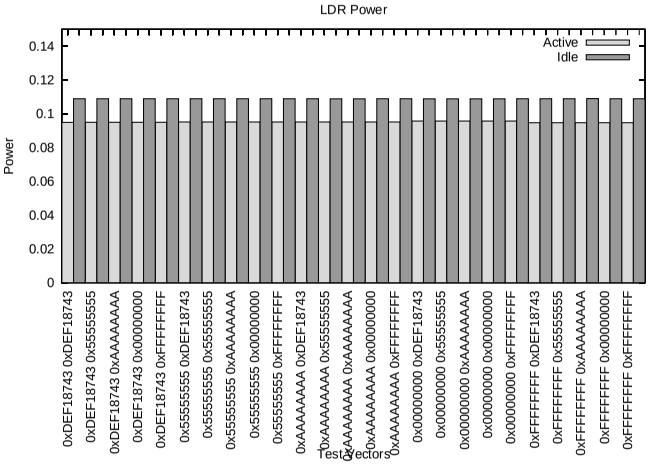
Test Vectors


LDR Power
Active
Idle
Power
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0.04
0.06
0.08
0.1
0.12
0.14
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0xDEF18743 0x55555555
0xDEF18743 0xAAAAAAAA
0xDEF18743 0x00000000
0xDEF18743 0xFFFFFFFF
0x55555555 0xDEF18743
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0x55555555 0xAAAAAAAA
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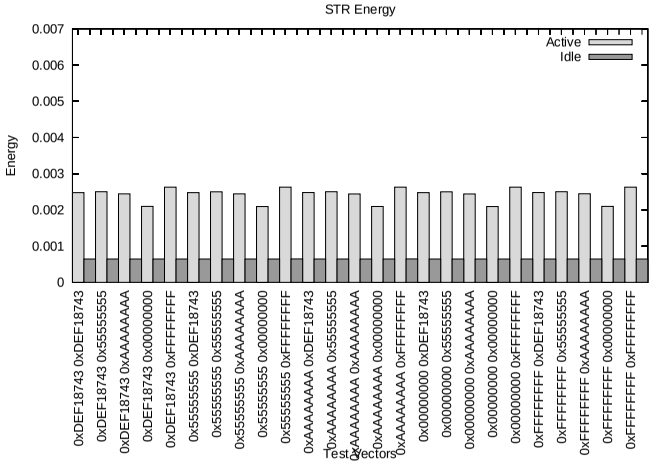
Test Vectors


STR Energy
Active
Idle
Energy
0
0.001
0.002
0.003
0.004
0.005
0.006
0.007
0xDEF18743 0xDEF18743
0xDEF18743 0x55555555
0xDEF18743 0xAAAAAAAA
0xDEF18743 0x00000000
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0x55555555 0xDEF18743
0x55555555 0x55555555
0x55555555 0xAAAAAAAA
0x55555555 0x00000000
0x55555555 0xFFFFFFFF
0xAAAAAAAA 0xDEF18743
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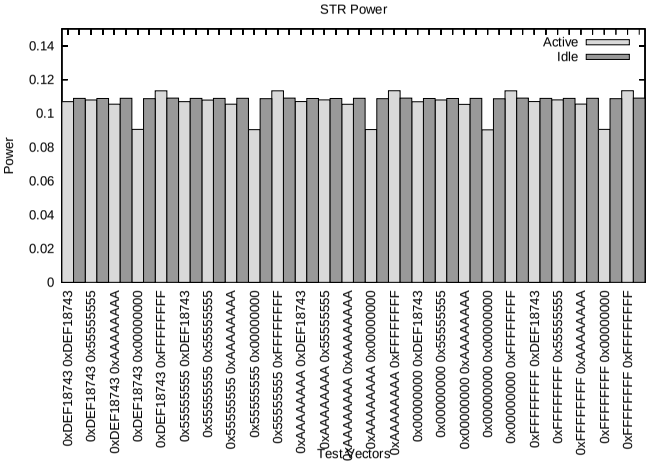
0xFFFFFFFF 0xFFFFFFFF
Test Vectors


STR Power
Active
Idle
Power
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0xDEF18743 0xDEF18743
0xDEF18743 0x55555555
0xDEF18743 0xAAAAAAAA
0xDEF18743 0x00000000
0xDEF18743 0xFFFFFFFF
0x55555555 0xDEF18743
0x55555555 0x55555555
0x55555555 0xAAAAAAAA
0x55555555 0x00000000
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0x00000000 0xAAAAAAAA
0x00000000 0x00000000
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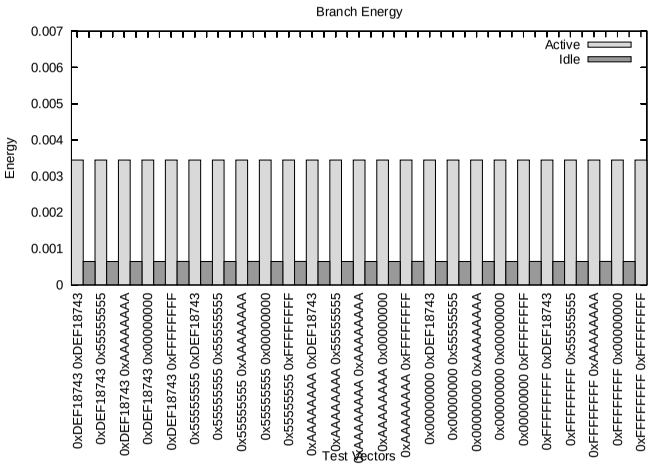
0xFFFFFFFF 0xDEF18743
0xFFFFFFFF 0x55555555
0xFFFFFFFF 0xAAAAAAAA
0xFFFFFFFF 0x00000000
0xFFFFFFFF 0xFFFFFFFF
Test Vectors


Branch Energy
Active
Idle
Energy
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
0xDEF18743 0xDEF18743
0xDEF18743 0x55555555
0xDEF18743 0xAAAAAAAA
0xDEF18743 0x00000000
0xDEF18743 0xFFFFFFFF
0x55555555 0xDEF18743
0x55555555 0x55555555
0x55555555 0xAAAAAAAA
0x55555555 0x00000000
0x55555555 0xFFFFFFFF
0xAAAAAAAA 0xDEF18743
0xAAAAAAAA 0x55555555
0xAAAAAAAA 0xAAAAAAAA
0xAAAAAAAA 0x00000000
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0x00000000 0xAAAAAAAA
0x00000000 0x00000000
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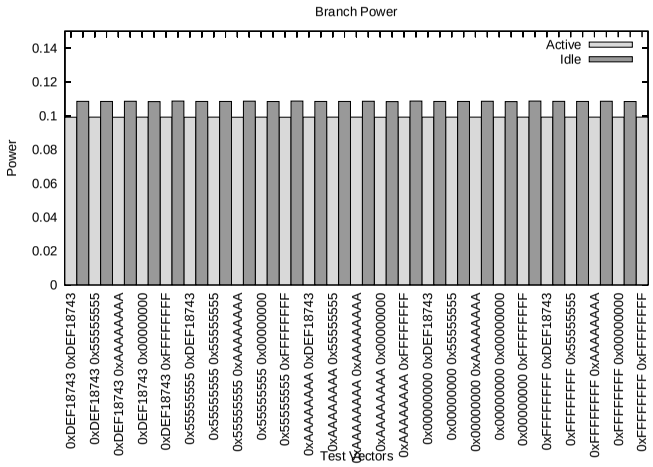
0xFFFFFFFF 0xAAAAAAAA
0xFFFFFFFF 0x00000000
0xFFFFFFFF 0xFFFFFFFF
Test Vectors


Branch Power
Active
Idle
Power
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0xDEF18743 0xDEF18743
0xDEF18743 0x55555555
0xDEF18743 0xAAAAAAAA
0xDEF18743 0x00000000
0xDEF18743 0xFFFFFFFF
0x55555555 0xDEF18743
0x55555555 0x55555555
0x55555555 0xAAAAAAAA
0x55555555 0x00000000
0x55555555 0xFFFFFFFF
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0x00000000 0x00000000
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0xFFFFFFFF 0xDEF18743
0xFFFFFFFF 0x55555555
0xFFFFFFFF 0xAAAAAAAA
0xFFFFFFFF 0x00000000
0xFFFFFFFF 0xFFFFFFFF
Test Vectors