

Bit number	31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0																													
ID	A A																													
Reset 0x00000000	0 0																													
ID	R/W	Field	Value ID	Value	Description																									
A	RW	VAL			Machine Cycle Counter value																									

8.26.3.22 MINSTRET

Address offset: 0xB02

Machine Instruction Counter

Counts the number of instructions the hart has retired

In this context retired means a successfully executed instruction

Bit number	31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0																													
ID	A A																													
Reset 0x00000000	0 0																													
ID	R/W	Field	Value ID	Value	Description																									
A	RW	VAL			Machine Instruction Counter value																									

8.26.3.23 MCYCLEH

Address offset: 0xB80

Machine Cycle Counter (Upper part)

Counts the number of clock cycles executed by the processor core on which the hart is running

Bit number	31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0																													
ID	A A																													
Reset 0x00000000	0 0																													
ID	R/W	Field	Value ID	Value	Description																									
A	RW	VAL			Machine Cycle Counter value																									

8.26.3.24 MINSTRETH

Address offset: 0xB82

Machine Instruction Counter (Upper part)

Counts the number of instructions the hart has retired

In this context retired means a successfully executed instruction

Bit number	31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0																													
ID	A A																													
Reset 0x00000000	0 0																													
ID	R/W	Field	Value ID	Value	Description																									
A	RW	VAL			Machine Instruction Counter (Upper part) value																									

8.26.3.25 UCYCLE

Address offset: 0xC00

User Cycle Counter