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	R Q P O N M L K J I H G F E D C B A A A
Reset 0x00400082	**0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0**

ID	R/W	Field	Value ID	Value	Description
			Yes	1	The authentication module is busy.
E	R	AUTHENTICATED			Authentication status.
			No	0	Authentication required before using the debug module.
			Yes	1	Authentication passed.
F	R	ANYHALTED			Any currently selected harts halted status.
			No	0	None of the currently selected harts halted.
			Yes	1	Any of the currently selected harts halted.
G	R	ALLHALTED			All currently selected harts halted status.
			No	0	Not all of the currently selected harts halted.
			Yes	1	All of the currently selected harts halted.
H	R	ANYRUNNING			Any currently selected harts running status.
			No	0	None of the currently selected harts running.
			Yes	1	Any of the currently selected harts running.
I	R	ALLRUNNING			All currently selected harts running status.
			No	0	Not all of the currently selected harts running.
			Yes	1	All of the currently selected harts running.
J	R	ANYUNAVAIL			Any currently selected harts unavailable status.
			No	0	None of the currently selected harts unavailable.
			Yes	1	Any of the currently selected harts unavailable.
K	R	ALLUNAVAIL			All currently selected harts unavailable status.
			No	0	Not all of the currently selected harts unavailable.
			Yes	1	All of the currently selected harts unavailable.
L	R	ANYNONEXISTENT			Any currently selected harts nonexistent status.
			No	0	None of the currently selected harts nonexistent.
			Yes	1	Any of the currently selected harts nonexistent.
M	R	ALLNONEXISTENT			All currently selected harts nonexistent status.
			No	0	Not all of the currently selected harts nonexistent.
			Yes	1	All of the currently selected harts nonexistent.
N	R	ANYRESUMEACK			Any currently selected harts acknowledged last resume request.
			No	0	None of the currently selected harts acknowledged last resume request.
			Yes	1	Any of the currently selected harts acknowledged last resume request.
O	R	ALLRESUMEACK			All currently selected harts acknowledged last resume
			No	0	Not all of the currently selected harts acknowledged last resume request.
			Yes	1	All of the currently selected harts acknowledged last resume request.
P	R	ANYHAVERESET			Any currently selected harts have been reset and reset is not acknowledged.
			No	0	None of the currently selected harts have been reset and reset is not acknowledget.
			Yes	1	Any of the currently selected harts have been reset and reset is not acknowledge.
Q	R	ALLHAVERESET			All currently selected harts have been reset and reset is not acknowledge
			No	0	Not all of the currently selected harts have been reset and reset is not acknowledge.
			Yes	1	All of the currently selected harts have been reset and reset is not acknowledge.
R	R	IMPEBREAK			Implicit ebreak instruction at the non-existent word immediately after the Program Buffer.
			No	0	No implicit ebreak instruction.
			Yes	1	Implicit ebreak instruction.

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