TRBDEVTYPE, Device Type Register

The TRBDEVTYPE characteristics are:

Purpose

Provides discovery information for the component. If the part number field is not recognized, a debugger can report the information that is provided by TRBDEVTYPE about the component instead.

For additional information, see the CoreSight Architecture Specification.

Configuration

This register is present only when FEAT_TRBE_EXT is implemented. Otherwise, direct accesses to TRBDEVTYPE are res0.

TRBDEVTYPE is in the Core power domain.

Attributes

TRBDEVTYPE is a 32-bit register.

Field descriptions

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
RES0																								SUB				MAJOR			

Bits [31:8]

Reserved, res0.

SUB, bits [7:4]

Component sub-type.

SUB	Meaning
0b0010	When MAJOR == 0x1 (Trace sink), Trace buffer or router.

This field reads as 0x2.

MAJOR, bits [3:0]

Component major type.

MAJOR	Meaning
0b0001	Trace sink.

Other values are defined by the CoreSight Architecture.

Access to this field is **RO**.

Accessing TRBDEVTYPE

TRBDEVTYPE can be accessed through the external debug interface:

Component	Offset	Instance
TRBE	0xFCC	TRBDEVTYPE

This interface is accessible as follows:

- When DoubleLockStatus() or !IsCorePowered(), accesses to this register generate an error response.
- Otherwise, accesses to this register are **RO**.

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