

TRCDEVARCH, Device Architecture Register

The TRCDEVARCH characteristics are:

Purpose

Provides discovery information for the component.

For additional information, see the CoreSight Architecture Specification.

Configuration

External register TRCDEVARCH bits [31:0] are architecturally mapped to AArch64 System register [TRCDEVARCH\[31:0\]](#).

This register is present only when FEAT_ETE is implemented and FEAT_TRC_EXT is implemented. Otherwise, direct accesses to TRCDEVARCH are res0.

Attributes

TRCDEVARCH 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
ARCHITECT											PRESENT	REVISION	ARCHVER	ARCHPART																	

ARCHITECT, bits [31:21]

Architect. Defines the architect of the component. Bits [31:28] are the JEP106 continuation code (JEP106 bank ID, minus 1) and bits [27:21] are the JEP106 ID code.

ARCHITECT	Meaning
0b01000111011	JEP106 continuation code 0x4, ID code 0x3B. Arm Limited.

Other values are defined by the JEDEC JEP106 standard.

This field reads as 0x23B.

PRESENT, bit [20]

DEVARCH Present. Defines that the DEVARCH register is present.

PRESENT	Meaning
0b0	Device Architecture information not present.
0b1	Device Architecture information present.

This field reads as 1.

REVISION, bits [19:16]

Revision. Defines the architecture revision of the component.

REVISION	Meaning
0b0000	ETEv1.0, FEAT_ETE.
0b0001	ETEv1.1, FEAT_ETEv1p1.
0b0010	ETEv1.2, FEAT_ETEv1p2.
0b0011	ETEv1.3, FEAT_ETEv1p3.

All other values are reserved.

ARCHVER, bits [15:12]

Architecture Version. Defines the architecture version of the component.

ARCHVER	Meaning
0b0101	ETEv1.

ARCHVER and ARCHPART are also defined as a single field, ARCHID, so that ARCHVER is ARCHID[15:12].

This field reads as 0x5.

ARCHPART, bits [11:0]

Architecture Part. Defines the architecture of the component.

ARCHPART	Meaning
0xA13	Arm PE trace architecture.

ARCHVER and ARCHPART are also defined as a single field, ARCHID, so that ARCHPART is ARCHID[11:0].

This field reads as 0xA13.

Accessing TRCDEVARCH

External debugger accesses to this register are unaffected by the OS Lock.

TRCDEVARCH can be accessed through the external debug interface:

Component	Offset	Instance
ETE	0xFBC	TRCDEVARCH

This interface is accessible as follows:

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

[AArch32
Registers](#)

[AArch64
Registers](#)

[AArch32
Instructions](#)

[AArch64
Instructions](#)

[Index by
Encoding](#)

[External
Registers](#)

28/03/2023 16:02; 72747e43966d6b97dcbd230a1b3f0421d1ea3d94

Copyright Â© 2010-2023 Arm Limited or its affiliates. All rights reserved. This document is Non-Confidential.