

ERRFHICR0, Fault Handling Interrupt Configuration Register 0

The ERRFHICR0 characteristics are:

Purpose

Fault Handling Interrupt configuration register.

Configuration

This register is present only when (the Fault Handling Interrupt is implemented or the implementation does not use the recommended layout for the ERRIRQCR registers) and interrupt configuration registers are implemented. Otherwise, direct accesses to ERRFHICR0 are res0.

ERRFHICR0 is implemented only as part of a memory-mapped group of error records.

Attributes

ERRFHICR0 is a 64-bit register.

Field descriptions

When the Fault Handling Interrupt is implemented, the implementation uses the recommended layout for the ERRIRQCR registers and the implementation uses simple interrupts:

63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32						
																RES0																					
																RES0																					
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						

Bits [63:0]

Reserved, res0.

When the implementation uses message-signaled interrupts, the Fault Handling Interrupt is implemented and the implementation uses the recommended layout for the ERRIRQCR registers:

63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	
RES0								ADDR																								
ADDR																															RES0	
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	

Bits [63:56]

Reserved, res0.

ADDR, bits [55:2]

Message Signaled Interrupt address. (ERRFHICR0.ADDR << 2) is the address that the component writes to when signaling the Fault Handling Interrupt. Bits [1:0] of the address are always zero.

The physical address size supported by the component is implementation defined. Unimplemented high-order physical address bits are res0.

The reset behavior of this field is:

- On an Error recovery reset, this field resets to an architecturally unknown value.

Bits [1:0]

Reserved, res0.

When the implementation does not use the recommended layout for the ERRIRQCR registers:

63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32
IMPLEMENTATION DEFINED																															
IMPLEMENTATION DEFINED																															
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

IMPLEMENTATION DEFINED, bits [63:0]

implementation defined.

Accessing ERRFHICR0

If the implementation does not use the recommended layout for the ERRIRQCR registers then accesses to ERRFHICR0 are implementation defined.

ERRFHICR0 can be accessed through the memory-mapped interfaces:

Component	Offset	Instance
RAS	0xE80	ERRFHICR0

This interface is accessible as follows:

- When the implementation uses message-signaled interrupts, (an access is Non-secure or an access is Realm), the implementation uses the recommended layout for the ERRIRQCR registers and ERRFHICR2.NSMSI configures the physical address space for message-signaled interrupts as Secure, accesses to this register are **RO**.
- Otherwise, accesses to this register are **RW**.

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