Old Company Name in Catalogs and Other Documents

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HITACHI SEMICONDUCTOR TECHNICAL UPDATE

DATE	5 July 2001	No.	TN- EML-068 A/E
ТНЕМЕ	Warnings on Usage of the E6000 Emulator for H8/36	664 Serie	s and H8/3672 Series Products
CLASSIFICATION	☐ Spec. change ☐ Supplement of Documents	Z Limita	ation on Use
PRODUCT NAME	H8/3664 Series, H8/3672 Series E6000 Emulator	Type nun	iber: HS3664EPI61H
REFERENCE	·HS3664EPI61H Supplementary Information		Effective All lot
DOCUMENTS			From
When programmin	g the H8/3664 series, H8/3672 series microcomputer	using th	ne E6000 emulator (HS3664EPI61H),
refer to the attached	d Warnings on Usage of the E6000 Emulator for H8/30	664 Serie	es and H8/3672 Series Products before
setting registers.			
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Warnings on Usage of the E6000 Emulator for H8/3664 Series and H8/3672 Series Products

The following warnings apply to register settings when programming the H8/3664 Series and H8/3672 Series microcomputers using the E6000 emulator.

- 1. Warnings that Apply to H8/3664 Series Programming
 - (1) The description given in the hardware manual is "Initial value: 1. Reserved. These bits are always read as 1". However, the description in the E6000 manual is "Always specify 0. These bits are always read as the specified values".

Target Address Re

Register Name

Bits

H'FFE0

Port mode register 1

Bits 3 and 2

(2) The description given in the hardware manual is "Initial value: 0. Reserved. These bits are always read as 0". However, the description in the E6000 manual is "Always specify 0. These bits are always read as the specified values".

Target Addresses

Register Name

Bits

H'FFE1

Port mode register 5

Bits 7 and 6

H'FFF9

Module standby control register 1

Bit 7

(3) The description given in the hardware manual is "Reserved". However, the description in the E6000 manual is "Always specify 0. These bits are always read as the specified values".

Target Addresses	Register Name	Bits
H'FFE2	Port mode register 3	Bits 7 to 3
H'FFF5	Interrupt enable register 2	Bits 7 to 5
H'FFFA	Module standby control register 2	Bits 7 to 0
H'FFFB	Module standby control register 3	Bit 0

(4) The hardware manual shows registers at the addresses given below. For these locations, however, the applicable description in the E6000 manual is "Writing has no effect. These bits are always read as undefined values", because there are no registers at these locations of the E6000.

Target Addresses	Register Name	Bits
H'FF90	Flash memory control register 1	Bits 7 to 0
H'FF91	Flash memory control register 2	Bits 7 to 0
H'FF92	Flash memory power control register	Bits 7 to 0
H'FF93	Erase block register 1	Bits 7 to 0
H'FF9B	Flash memory enable register	Bits 7 to 0

- 2. Warnings that Apply to H8/3672 Series Programming
 - (1) The description given in the hardware manual is "Initial value: 1. Reserved. These bits are always read as 1". However, the description in the E6000 manual is "Always specify 0. These bits are always read as the specified values".

Target Address Register Name Bits
H'FFE0 Port mode register 1 Bit 3

(2) The description given in the hardware manual is "Initial value: 0. Reserved. These bits are always read as 0". However, the description in the E6000 manual is "Always specify 0. These bits are always read as the specified values".

Target Addresses Register Name Bits

H'FFE0 Port mode register 1 Bits 6 and 5

H'FFF2 Interrupt edge select register 1 Bits 7, 2 and 1

H'FFF4 Interrupt enable register 1 Bits 6, 2 and 1

H'FFF9 Module standby control register 1 Bit 7

(3) The description given in the hardware manual is "Reserved". However, the description in the E6000 manual is "Always specify 0. These bits are always read as the specified values".

Target Addresses	Register Name	Bits
H'FFE2	Port mode register 3	Bits 7 to 3
H'FFF5	Interrupt enable register 2	Bits 7 to 5
H'FFFA	Module standby control register 2	Bits 7 to 0
H'FFFB	Module standby control register 3	Bit 0

(4) The hardware manual shows registers at the addresses given below. For these locations, however, the applicable description in the E6000 manual is "Writing has no effect. These bits are always read as undefined values", because there are no registers at these locations of the E6000.

Target Addresses	Register Name	Bits
H'FF90	Flash memory control register 1	Bits 7 to 0
H'FF91	Flash memory control register 2	Bits 7 to 0
H'FF92	Flash memory power control register	Bits 7 to 0
H'FF93	Erase block register 1	Bits 7 to 0
H'FF9B	Flash memory enable register	Bits 7 to 0

Table 1 Differences between the Evaluation Chip and the H8/3664, H8/3672 Series Products

	Address	Register	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
[H'FFE0	PMR1	IRQ3	IRQ2	IRQ1	IRQ0	TXD2	PWM	TXD	TMOW
} [H'FFE1	PMR5	POF57	POF56	WKP5	WKP4	WKP3	WKP2	WKP1	WKP0
H8/3660	H'FFE2	PMR3	POF27	POF26	POF25	POF24	POF23	_	_	
(Evalua-	H'FFF1	SYSCR2	SMSEL	LSON	DTON	MA2	MA1	MA0	SA1	SA0
tion chip)	H'FFF2	IEGR1	NMIEG	-		_	IEG3	IEG2	IEG1	IEG0
1.011 01.110/	H'FFF4	IENR1	IENDT	IENTA	IENWP	_	IEN3	IEN2	IEN1	IEN0
	H'FFF5	IENR2	IENTB3	IENTB2	IENTB1	_	_	-	_	
	H'FFF9	MSTCR1	MSTS4	MSTIIC	MSTS3	MSTAD	MSTWD	MSTTW	MSTTV	MSTTA
	H'FFFA	MSTCR2	MSTS3_2	MSTTB3	MSTTB2	MSTTB1	MSTTX	_	MSTTZ0	MSTPWM
	H'FFFB	MSTCR3		_	_	_	-	_	_	MSTS4_2

	Address	Register	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	H'FFE0	PMR1	IRQ3	IRQ2	IRQ1	IRQ0	_	_	TXD	TMOW
	H'FFE1	PMR5		_	WKP5	WKP4	WKP3	WKP2	WKP1	WKP0
	H'FFE2			-	_		_	_	_	_
	H'FFF1	SYSCR2	SMSEL	LSON	DTON	MA2	MA1	MAO	SA1	SA0
H8/3664	H'FFF2	IEGR1	NMIEG	-	_	_	IEG3	IEG2	IEG1	IEG0
	H'FFF4	IENR1	IENDT	IENTA	IENWP	_	IEN3	IEN2	IEN1	IEN0
1 [H'FFF5		_	_	_	_	_	_	_	_
	H'FFF9	MSTCR1		MSTIIC	MSTS3	MSTAD	MSTWD	MSTTW	MSTTV	MSTTA
'	H'FFFA		-	_	_	_	-	-	_	-
	H'FFFB	-	-	_		-	_	_	-	

	Address	Register	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
[H'FFE0	PMR1	IRQ3	-	_	IRQ0	-	(PWM)	TXD	TMOW
	H'FFE1	PMR5	POF57	POF56	WKP5	WKP4	WKP3	WKP2	WKP1	WKP0
	H'FFE2	_	_	-	_	_	-	_	_	
	H'FFF1	SYSCR2	SMSEL	LSON	DTON	MA2	MA1	MA0	SA1	SA0
H8/3672	H'FFF2	IEGR1	<u> </u>	-	_		IEG3	IEG2	IEG1	IEG0
[H'FFF4	IENR1	IENDT	_	IENWP	_	IEN3	_		IEN0
	H'FFF5	_	_	-	-	_		_	-	
	H'FFF9	MSTCR1	_	MSTIIC	MSTS3	MSTAD	MSTWD	MSTTW	MSTTV	MSTTA
	H'FFFA	_	_	_	_	_		-	-	(MSTPW M)
	H'FFFB	_	—		_	_	_		_	