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## 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
THEME	Warnings on Usage of the E6000 Emulator for H8/3664 Series and H8/3672 Series Products		
CLASSIFICATION	<input type="checkbox"/> Spec. change <input type="checkbox"/> Supplement of Documents <input checked="" type="checkbox"/> Limitation on Use		
PRODUCT NAME	H8/3664 Series, H8/3672 Series E6000 Emulator    Type number: HS3664EPI61H		
REFERENCE DOCUMENTS	•HS3664EPI61H Supplementary Information		Effective All lot
			From
<p>When programming the H8/3664 series, H8/3672 series microcomputer using the E6000 emulator (HS3664EPI61H), refer to the attached Warnings on Usage of the E6000 Emulator for H8/3664 Series and H8/3672 Series Products before setting registers.</p>			

## 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	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 register1	Bits 7 , 2 and 1
H'FFF4	Interrupt enable register1	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

