Leo说io中加入mdelay(5),造成kernel boot时crash。

in drivers/pinctrl/pinctrl-single.c

```
1.    static void __maybe_unused pcs_writel(unsigned val, void __iomem *reg)
2.    {
3.    #ifdef CONFIG_ARCH_PEGMATITE
4.          /* Workaround: Flaw in HW timing requires multiple reads/writes
5.           * to guarantee accuracy */

6.          writel(val, reg);

7.    mdelay(5);

8.    #endif
9.          writel(val, reg);
10.   }
```

我试了一下，好像没问题啊?!

```
1.    static void __maybe_unused pcs_writel(unsigned val, void __iomem *reg)
2.    {
3.    #ifdef CONFIG_ARCH_PEGMATITE
4.        /* Workaround: Flaw in HW timing requires multiple reads/writes
5.         * to guarantee accuracy */
6.        writel(val, reg);
7.        asm (
8.            "mov r0, r0\n"
9.            :
10.           :
11.           :"r0"
12.       );
13.       mdelay(5);
14.       asm (
15.           "mov r0, r0\n"
16.           :
17.           :
18.           :"r0"
19.       );
20.   #endif
21.       writel(val, reg);
22.   }
```

在mdelay(5)前后加上nop instruction，是为了辨认出mdelay(5)的assembly code。

```
c021e350 <pcs_writel>:
c021e350:    e92d41f0    push   {r4, r5, r6, r7, r8, lr}
c021e354:    e1a08000    mov    r8, r0
c021e358:    e1a06001    mov    r6, r1
c021e35c:    f57ff04e    dsb    st
c021e360:    e3027444    movw   r7, #9284    ; 0x2444
c021e364:    e34c705e    movt   r7, #49246   ; 0xc05e
c021e368:    e5973014    ldr    r3, [r7, #20]
c021e36c:    e3530000    cmp    r3, #0
c021e370:    0a000000    beq    c021e378 <pcs_writel+0x28>
c021e374:    e12fff33    blx    r3
c021e378:    e5868000    str    r8, [r6]
------------------------------------------------------------
c021e37c:    e1a00000    nop              ; (mov r0, r0)
c021e380:    e3015d44    movw   r5, #7492    ; 0x1d44
c021e384:    e34c505f    movt   r5, #49247   ; 0xc05f
c021e388:    e3a04005    mov    r4, #5
c021e38c:    e30605b0    movw   r0, #26032   ; 0x65b0
c021e390:    e5953004    ldr    r3, [r5, #4]
c021e394:    e3400666    movt   r0, #1638    ; 0x666
c021e398:    e12fff33    blx    r3
c021e39c:    e2544001    subs   r4, r4, #1
c021e3a0:    1afffff9    bne    c021e38c <pcs_writel+0x3c>
c021e3a4:    e1a00000    nop              ; (mov r0, r0)
------------------------------------------------------------
c021e3a8:    f57ff04e    dsb    st
c021e3ac:    e5973014    ldr    r3, [r7, #20]
c021e3b0:    e3530000    cmp    r3, #0
c021e3b4:    0a000000    beq    c021e3bc <pcs_writel+0x6c>
c021e3b8:    e12fff33    blx    r3
c021e3bc:    e5868000    str    r8, [r6]
c021e3c0:    e8bd81f0    pop    {r4, r5, r6, r7, r8, pc}
```

中间的code就是mdelay(5)。

kernel booting successfully.