

PROBLEM: 2.6.13 crash on sparc64 in sunsu_kbd_ms_interrupt

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To: linux-kernel@vger.kernel.org

1. 2.6.13 crash on sparc64 in sunsu_kbd_ms_interrupt
2. I'm running 2.6.13/sparc64 on a diskless Sun Ultra 5 workstation. After an uptime between 5 and 20 minutes after start, the kernel crashes, system stalls.
3. sparc64 sun keyboard sunsu_kbd_ms_interrupt
4. vanilla 2.6.13
5. Last working kernel version is not known. 2.6.12.5 shows the same behaviour.
6. Kernel message is attached to this mail.

8.1. Gnu C 3.4.2, binutils 2.15

8.2.

```
sunny:~# cat /proc/cpuinfo
cpu : TI UltraSparc Iii (Sabre)
fpu : UltraSparc Iii integrated FPU
promlib : Version 3 Revision 11
prom : 3.11.12
type : sun4u
ncpus probed : 1
ncpus active : 1
Cpu0Bogo : 539.03
Cpu0ClkTck : 000000001017df80
MMU Type : Spitfire
```

8.3. no modules loaded

8.4.

```
sunny:~# cat /proc/ioports
1fe0200000-1fe02bffff : SABRE0 PBMA
1fe02c0000-1fe02fffff : SABRE0 PBMB
```

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```
1fe02c0000-1fe02c0007 : 0000:01:03.0
1fe02c0008-1fe02c000b : 0000:01:03.0
1fe02c00010-1fe02c00017 : 0000:01:03.0
1fe02c00018-1fe02c0001b : 0000:01:03.0
1fe02c00020-1fe02c0002f : 0000:01:03.0
1fe02c00400-1fe02c004ff : 0000:01:02.0
sunny:~# cat /proc/iomem
1ff0000000-1ffbffffff : SABRE0 PBMA
 1ff000a000-1ff000bffff : Video RAM area
 1ff000c000-1ff000c7fff : Video ROM
 1ff000f000-1ff000ffff : System ROM
1ffe000000-1fffffffff : SABRE0 PBMB
 1ffe000000-1ffe0007fff : 0000:01:01.1
   1ffe000000-1ffe0007fff : sunhme
 1ffe0008000-1ffe0008fff : 0000:01:02.0
 1ffe0020000-1ffe003ffff : 0000:01:02.0
 1ffe1000000-1ffe1ffffff : 0000:01:02.0
 1ffe2000000-1ffe2ffffff : 0000:01:01.0
 1ffe3000000-1ffe3ffffff : 0000:01:01.1
1fff0000000-1fff0ffffff : 0000:01:01.0
 1fff0000000-1fff00fffff : flashprom
1fff1000000-1fff17fffff : 0000:01:01.0
 1fff1000000-1fff1001fff : eeprom
 1fff1200000-1fff12000ff : SUNW,CS4231
 1fff130015c-1fff130015d : ecpp
 1fff13023f0-1fff13023f7 : fdthree
 1fff13043bc-1fff13043cb : ecpp
 1fff13062f8-1fff13062ff : su
 1fff13083f8-1fff13083ff : su
 1fff1400000-1fff140007f : se
 1fff1504000-1fff1504002 : SUNW,pll
 1fff1700000-1fff170000f : ecpp
 1fff1702000-1fff170200f : SUNW,CS4231
 1fff1704000-1fff170400f : SUNW,CS4231
 1fff1706000-1fff170600f : fdthree
 1fff1720000-1fff1720003 : fdthree
 1fff1722000-1fff1722003 : SUNW,CS4231
 1fff1724000-1fff1724003 : power
 1fff1726000-1fff1726003 : auxio
 1fff1728000-1fff1728003 : auxio
 1fff172a000-1fff172a003 : auxio
 1fff172c000-1fff172c003 : auxio
 1fff172f000-1fff172f003 : auxio
```

8.5. lspci -vvv output attached

The kernel has been cross-compiled on a x86 Linux system, and converted from ELF to a.out format in order to boot it via network.

Regards,
Jim

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