

DragonFlyBSD - Bug #3087

Acer TravelMate Spin B hangs in TSC testing synchronization..

10/21/2017 05:33 AM - mneumann

Status:	Resolved	Start date:	10/21/2017
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	5.0		

Description

I am running DragonFly 5.0.0-RELEASE on an Acer TravelMate Spin B (Intel N3450 @ 1.10 GHz) laptop.

When booting, it shows:

```
TSC invariant clock: 1094436275 Hz
....
lapic: TSC Deadline Mode: shift 0, frequency 1094436275 Hz
srat_probe: can't locate SRAT
Initialize MI interrupts
TSC testing synchronization ...
```

and then it loops/hangs forever. Any help appreciated.

History

#1 - 10/23/2017 08:15 AM - swildner

Please post (or take a photo of) the output with a verbose boot ('v' from the loader menu).

As far as I can tell TSC synchronization gives no more output than just "TSC testing MP synchronization" if it succeeds.

#2 - 10/23/2017 08:46 AM - mneumann

verbose booting gives (the remaining lines that I can see):

```
Initialize MI interrupts
MWAIT hints (2 C1 hints):
C1/0 hint 0x0000
C1/1 hint 0x0001
MWAIT deep hints:
C1/0 hint 0x0000
C1/1 hint 0x0001
C3/0 hint 0x0020
C3/1 hint 0x0021
C4/0 hint 0x0030
C4/1 hint 0x0031
C4/2 hint 0x0032
C5/0 hint 0x0040
C5/1 hint 0x0041
C6/0 hint 0x0050
C7/0 hint 0x0060
objcache: magazine cap [6, 134]
Finish MP startup
Active CPU Mask: 000000000000000f
TSC testing MP synchronization ...
cpu0: TSC testing MP synchronization ...
```

#3 - 10/25/2017 12:44 AM - mneumann

- Status changed from New to In Progress

Since commit <http://gitweb.dragonflybsd.org/dragonfly.git/commit/33bb59d933c5d9062ff9791e73bf4be31a314bbd>, it successfully boots when

```
set hw.tsc_cputimer_force="-1"
```

is specified in /boot/loader.conf.

#4 - 10/28/2017 02:37 AM - mneumann

This patch fixes the issue:

https://leaf.dragonflybsd.org/~sephe/tsc_mpsync_pause.diff

#5 - 10/28/2017 08:03 AM - mneumann

- *Status changed from In Progress to Resolved*

Fixed by commit: <https://gitweb.dragonflybsd.org/dragonfly.git/commitdiff/3a80fe2b3b31f537127b5393af89a549c4d815d9>