

## 2.6.0-test9-mjb1

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2003-10/6308.html>

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Date: Thu, 30 Oct 2003 12:00:22 -0800  
To: linux-kernel <[linux-kernel@vger.kernel.org](mailto:linux-kernel@vger.kernel.org)>

The patchset contains mainly scalability and NUMA stuff, and anything else that stops things from irritating me. It's meant to be pretty stable, not so much a testing ground for new stuff.

I'd be very interested in feedback from anyone willing to test on any platform, however large or small.

<ftp://ftp.kernel.org/pub/linux/kernel/people/mbligh/2.6.0-test9/patch-2.6.0-test9-mjb1.bz2>

Since 2.6.0-test8-mjb1 (~ = changed, + = added, - = dropped)

Notes:

Mostly a merge forwards.

Now in Linus' tree:

Dropped:

New:

+ autoswap Con Kolivas  
Auto-tune swappiness

+ ext2\_fix Andrew Morton  
Fix a race in ext2

Pending:

lotsa\_sds  
config\_numasched  
4/4 split  
new kgdb  
list\_of\_lists  
Hyperthreaded scheduler (Ingo Molnar)  
scheduler callers profiling (Anton or Bill Hartner)  
Child runs first (akpm)  
Kexec  
e1000 fixes

Update the lost timer ticks code  
pidmaps\_nodpages (Dave Hansen)

Present in this patch:

early\_printk Dave Hansen / Keith Mannthey  
Allow printk before console\_init

confighz Andrew Morton / Dave Hansen  
Make HZ a config option of 100 Hz or 1000 Hz

config\_page\_offset Dave Hansen / Andrea  
Make PAGE\_OFFSET a config option

numameminfo Martin Bligh / Keith Mannthey  
Expose NUMA meminfo information under /proc/meminfo.numa

sched\_tunables Robert Love  
Provide tunable parameters for the scheduler (+ NUMA scheduler)

partial\_objrmap Dave McCracken  
Object based rmap for filebacked pages.

spinlock\_inlining Andrew Morton & Martin J. Bligh  
Inline spinlocks for profiling. Made into a ugly config option by me.

lockmeter John Hawkes / Hanna Linder  
Locking stats.

sched\_interactive Ingo Molnar  
Bugfix for interactive scheduler

local\_balance\_exec Martin J. Bligh  
Modify balance\_exec to use node-local queues when idle

tcp\_speedup Martin J. Bligh  
Speedup TCP (avoid double copy) as suggested by Linus

disable\_preempt Martin J. Bligh  
I broke preempt somehow, temporarily disable it to stop accidents

ppc64\_pci\_fix Anton Blanchard  
Fix some ppc64 pci thing or other.

per\_node\_idt Zwane Mwaikambo  
Per node IDT so we can do silly numbers of IO-APICs on NUMA-Q

aiofix2 Mingming Cao  
fixed a bug in ioctx\_alloc()

config\_irqbal Keith Mannthey

Make irqbalance a config option

percpu\_real\_loadavg Dave Hansen / Martin J. Bligh

Tell me what the real load average is, and tell me per cpu.

nolock Dave McCracken

Nah, we don't like locks.

mbind\_part1 Matt Dobson

Bind some memory for NUMA.

mbind\_part2 Matt Dobson

Bind some more memory for NUMA.

per\_node\_rss Matt Dobson

Track which nodes tasks mem is on, so sched can be sensible.

pfn\_to\_nid Martin J. Bligh

Dance around the twisted rats nest of crap in i386 include.

gfp\_node\_strict Dave Hansen

Add a node strict binding as a gfp mask option

page\_lock William Lee Irwin

Conditionally convert mapping->page\_lock back to an rwlock

irqbal\_fast Adam Litke

Balance IRQs more readily

kcg Adam Litke

Acylic call graphs from the kernel. Wheeeeeeeeeeeeeee!

numa\_mem\_equals Dave Hansen

mem= command line parameter NUMA awareness.

qlogic driver Qlogic

The qlogic driver

autoswap Con Kolivas

Auto-tune swapiness

ext2\_fix Andrew Morton

Fix a race in ext2

-mjb Martin J. Bligh

Add a tag to the makefile

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Linux-Kernel: 2.6.0-test9-mjb1

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