

2.6.0-test8-mjb1

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2003-10/5033.html>

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Date: 10/24/03

Date: Thu, 23 Oct 2003 15:30:35 -0700
To: linux-kernel <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-test8/patch-2.6.0-test8-mjb1.bz2>

Since 2.6.0-test6-mjb1 (~ = changed, + = added, - = dropped)

Notes:

Mostly a merge forwards.

Now in Linus' tree:

Dropped:

New:

- + irqbal_fast Adam Litke
Balance IRQs more readily
- + kcg Adam Litke
Acylic call graphs from the kernel. Wheeeeeeeeeeeee!
- + numa_mem_equals Dave Hansen
mem= command line parameter NUMA awareness.
- + qllogic driver Qlogic
The qllogic driver
- + schedstats Rick Lindsley
Loads stats for the analytics amongst us

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_nodepages (Dave Hansen)

Present in this patch:

early_printk Dave Hansen / Keith Mannthey
Allow printk before console_init

config_hz 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. Wheeeeeeeeeeeee!

numa_mem_equals Dave Hansen

mem= command line parameter NUMA awareness.

qlogic driver Qlogic

The qlogic driver

-mjb Martin J. Bligh

Add a tag to the makefile

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