

<i>Solution</i>	<i>Issue</i>
<i>Multicore packet processing</i>	<i>Concurrent accept system calls contend on shared socket fields.</i>
<i>Sloppy counters</i>	<i>Resolving preference counts contend (dentry, vfsmount, dst_entry, protocol usage)</i>
<i>Lock-free comparison</i>	<i>Walking file name paths contends on per-directory entry spin lock.</i>
<i>per-core data structures</i>	<i>Resolving path names to mount points contends on a global spin lock</i>
<i>Eliminating false sharing</i>	<i>False sharing in page, net_device and device</i>
<i>DMA buffer allocation</i>	<i>DMA memory allocations contend on the memory node 0 spin lock.</i>
<i>Avoiding unnecessary locking</i>	<i>inode lists, Dcache lists, Per-inode mutex</i>