

2.6.24 Page Allocation Failure

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-01/msg13397.html>

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 - *Date:* Thu, 31 Jan 2008 10:49:41 -0500
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My setup is Mandriva 2007 64-bit:

IntelS5000PSLSATA motherboard
 Single Dual Core 3 Ghz Xeon
 2 GB ECC RAM
 Myricom 10 GbE Network Adapter (using out of kernel 1.4.0 driver compiled with "MYRI10GE_ALLOC_ORDER=2")

I have two identical systems doing data transfer via Myricom cards connected directly to one another (in other words, not going through a switch).

No problems hammering Myricom with 350 MB/sec NFS traffic while running 2.6.20.15 and 2.6.22.9 (kernel.org "plain vanilla" kernels I compiled and run, also with updated Myricom drivers). However, I just compiled and installed 2.6.24 and get the following errors as soon as I begin doing NFS I/O over the Myricom card. Maybe I missed something in the kernel configuration? Throughput when running 2.6.24 is about 40 percent lower than when running 2.6.22.9— surely due to these errors.

```
Jan 29 22:13:36 master kernel: nfsd: page allocation failure. order:2, mode:0x4020
Jan 29 22:13:36 master kernel: Pid: 6586, comm: nfsd Not tainted 2.6.24 #1
Jan 29 22:13:36 master kernel:
Jan 29 22:13:36 master kernel: Call Trace:
Jan 29 22:13:36 master kernel: <IRQ> [__alloc_pages+822/912] __alloc_pages+0x336/0x390
Jan 29 22:13:36 master kernel: <IRQ> [<ffffffff80279d66>] __alloc_pages+0x336/0x390
Jan 29 22:13:36 master kernel: [ip_local_deliver+37/112] ip_local_deliver+0x25/0x70
Jan 29 22:13:36 master kernel: [<ffffffff80417bb5>] ip_local_deliver+0x25/0x70
Jan 29 22:13:36 master kernel: [_end+130301422/2130457992]
:myri10ge:myri10ge_alloc_rx_pages+0x156/0x270
Jan 29 22:13:36 master kernel: [<ffffffff88280866>] :myri10ge:myri10ge_alloc_rx_pages+0x156/0x270
Jan 29 22:13:36 master kernel: [_end+130325174/2130457992] :myri10ge:myri10ge_poll+0x57e/0xae0
Jan 29 22:13:36 master kernel: [<ffffffff8828652e>] :myri10ge:myri10ge_poll+0x57e/0xae0
Jan 29 22:13:36 master kernel: [_spin_lock_bh+9/32] _spin_lock_bh+0x9/0x20
Jan 29 22:13:36 master kernel: [<ffffffff80466819>] _spin_lock_bh+0x9/0x20
Jan 29 22:13:36 master kernel: [_end+129719928/2130457992] :sunrpc:svc_sock_enqueue+0x80/0x340
Jan 29 22:13:36 master kernel: [<ffffffff881f28f0>] :sunrpc:svc_sock_enqueue+0x80/0x340
Jan 29 22:13:36 master kernel: [net_rx_action+153/448] net_rx_action+0x99/0x1c0
Jan 29 22:13:36 master kernel: [<ffffffff803f6729>] net_rx_action+0x99/0x1c0
Jan 29 22:13:36 master kernel: [__do_softirq+105/224] __do_softirq+0x69/0xe0
Jan 29 22:13:36 master kernel: [<ffffffff80241db9>] __do_softirq+0x69/0xe0
```

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```
Jan 29 22:13:36 master kernel: [call_softirq+28/48] call_softirq+0x1c/0x30
Jan 29 22:13:36 master kernel: [<ffffffff8020cd9c>] call_softirq+0x1c/0x30
Jan 29 22:13:36 master kernel: <EOI> [do_softirq+53/144] do_softirq+0x35/0x90
Jan 29 22:13:36 master kernel: <EOI> [<ffffffff8020eef5>] do_softirq+0x35/0x90
Jan 29 22:13:36 master kernel: [local_bh_enable+91/160] local_bh_enable+0x5b/0xa0
Jan 29 22:13:36 master kernel: [<ffffffff80241c6b>] local_bh_enable+0x5b/0xa0
Jan 29 22:13:36 master kernel: [_end+129726255/2130457992] :sunrpc:svc_udp_recvfrom+0x407/0x430
Jan 29 22:13:36 master kernel: [<ffffffff881f41a7>] :sunrpc:svc_udp_recvfrom+0x407/0x430
Jan 29 22:13:36 master kernel: [_end+129730321/2130457992] :sunrpc:svc_rcv+0x2a9/0x4e0
Jan 29 22:13:36 master kernel: [<ffffffff881f5189>] :sunrpc:svc_rcv+0x2a9/0x4e0
Jan 29 22:13:36 master kernel: [default_wake_function+0/16] default_wake_function+0x0/0x10
Jan 29 22:13:36 master kernel: [<ffffffff80233460>] default_wake_function+0x0/0x10
Jan 29 22:13:36 master kernel: [__down_read+18/177] __down_read+0x12/0xb1
Jan 29 22:13:36 master kernel: [<ffffffff80466242>] __down_read+0x12/0xb1
Jan 29 22:13:36 master kernel: [_end+130772360/2130457992] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:36 master kernel: [<ffffffff882f3800>] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:36 master kernel: [_end+130772586/2130457992] :nfsd:nfsd+0xe2/0x2e0
Jan 29 22:13:36 master kernel: [<ffffffff882f38e2>] :nfsd:nfsd+0xe2/0x2e0
Jan 29 22:13:36 master kernel: [child_rip+10/18] child_rip+0xa/0x12
Jan 29 22:13:36 master kernel: [<ffffffff8020ca28>] child_rip+0xa/0x12
Jan 29 22:13:36 master kernel: [_end+130772360/2130457992] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:36 master kernel: [<ffffffff882f3800>] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:36 master kernel: [_end+130772360/2130457992] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:36 master kernel: [<ffffffff882f3800>] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:36 master kernel: [child_rip+0/18] child_rip+0x0/0x12
Jan 29 22:13:36 master kernel: [<ffffffff8020ca1e>] child_rip+0x0/0x12
Jan 29 22:13:36 master kernel:
Jan 29 22:13:36 master kernel: Mem-info:
Jan 29 22:13:36 master kernel: DMA per-cpu:
Jan 29 22:13:36 master kernel: CPU 0: Hot: hi: 0, btch: 1 usd: 0 Cold: hi: 0, btch: 1 usd: 0
Jan 29 22:13:36 master kernel: CPU 1: Hot: hi: 0, btch: 1 usd: 0 Cold: hi: 0, btch: 1 usd: 0
Jan 29 22:13:36 master kernel: DMA32 per-cpu:
Jan 29 22:13:36 master kernel: CPU 0: Hot: hi: 186, btch: 31 usd: 150 Cold: hi: 62, btch: 15 usd: 62
Jan 29 22:13:36 master kernel: CPU 1: Hot: hi: 186, btch: 31 usd: 105 Cold: hi: 62, btch: 15 usd: 52
Jan 29 22:13:36 master kernel: Active:41027 inactive:437314 dirty:29708 writeback:0 unstable:0
Jan 29 22:13:36 master kernel: free:3892 slab:19405 mapped:11793 pagetables:1512 bounce:0
Jan 29 22:13:36 master kernel: DMA free:8008kB min:28kB low:32kB high:40kB active:0kB
inactive:2384kB present:11100kB pages_scanned:0 all_unreclaimable? no
Jan 29 22:13:36 master kernel: lowmem_reserve[]: 0 1998 1998 1998
Jan 29 22:13:36 master kernel: DMA32 free:7560kB min:5704kB low:7128kB high:8556kB active:164108kB
inactive:1746872kB present:2046800kB pages_scanned:32 all_unreclaimable? no
Jan 29 22:13:36 master kernel: lowmem_reserve[]: 0 0 0 0
Jan 29 22:13:36 master kernel: DMA: 4*4kB 5*8kB 6*16kB 6*32kB 4*64kB 2*128kB 4*256kB 4*512kB
0*1024kB 0*2048kB 1*4096kB = 8024kB
Jan 29 22:13:36 master kernel: DMA32: 1365*4kB 11*8kB 38*16kB 18*32kB 0*64kB 0*128kB 0*256kB
0*512kB 1*1024kB 0*2048kB 0*4096kB = 7756kB
Jan 29 22:13:36 master kernel: Swap cache: add 43, delete 43, find 0/0, race 0+0
Jan 29 22:13:36 master kernel: Free swap = 4088332kB
Jan 29 22:13:36 master kernel: Total swap = 4088500kB
Jan 29 22:13:36 master kernel: Free swap: 4088332kB
```

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```
Jan 29 22:13:36 master kernel: 523264 pages of RAM
Jan 29 22:13:36 master kernel: 9510 reserved pages
Jan 29 22:13:36 master kernel: 492885 pages shared
Jan 29 22:13:36 master kernel: 0 pages swap cached
Jan 29 22:13:44 master nmbd[3438]: [2008/01/29 22:13:44, 0]
nmbd/nmbd_packets.c:process_browse_packet(1061)
Jan 29 22:13:44 master nmbd[3438]: process_browse_packet: Discarding datagram from IP 192.168.1.240.
Source name master<00> is one of our names !
Jan 29 22:13:44 master nmbd[3438]: [2008/01/29 22:13:44, 0]
nmbd/nmbd_packets.c:process_browse_packet(1061)
Jan 29 22:13:44 master nmbd[3438]: process_browse_packet: Discarding datagram from IP 192.168.1.237.
Source name master<00> is one of our names !
Jan 29 22:13:44 master kernel: nfsd: page allocation failure. order:2, mode:0x4020
Jan 29 22:13:44 master kernel: Pid: 6591, comm: nfsd Not tainted 2.6.24 #1
Jan 29 22:13:44 master kernel:
Jan 29 22:13:44 master kernel: Call Trace:
Jan 29 22:13:44 master kernel: <IRQ> [__alloc_pages+822/912] __alloc_pages+0x336/0x390
Jan 29 22:13:44 master kernel: <IRQ> [<ffffffff80279d66>] __alloc_pages+0x336/0x390
Jan 29 22:13:44 master kernel: [_end+130301422/2130457992]
:myri10ge:myri10ge_alloc_rx_pages+0x156/0x270
Jan 29 22:13:44 master kernel: [<ffffffff88280866>] :myri10ge:myri10ge_alloc_rx_pages+0x156/0x270
Jan 29 22:13:44 master kernel: [_end+130325174/2130457992] :myri10ge:myri10ge_poll+0x57e/0xae0
Jan 29 22:13:44 master kernel: [<ffffffff8828652e>] :myri10ge:myri10ge_poll+0x57e/0xae0
Jan 29 22:13:44 master kernel: [_spin_lock_bh+9/32] _spin_lock_bh+0x9/0x20
Jan 29 22:13:44 master kernel: [<ffffffff80466819>] _spin_lock_bh+0x9/0x20
Jan 29 22:13:44 master kernel: [_end+129719928/2130457992] :sunrpc:svc_sock_enqueue+0x80/0x340
Jan 29 22:13:44 master kernel: [<ffffffff881f28f0>] :sunrpc:svc_sock_enqueue+0x80/0x340
Jan 29 22:13:44 master kernel: [net_rx_action+153/448] net_rx_action+0x99/0x1c0
Jan 29 22:13:44 master kernel: [<ffffffff803f6729>] net_rx_action+0x99/0x1c0
Jan 29 22:13:44 master kernel: [__do_softirq+105/224] __do_softirq+0x69/0xe0
Jan 29 22:13:44 master kernel: [<ffffffff80241db9>] __do_softirq+0x69/0xe0
Jan 29 22:13:44 master kernel: [call_softirq+28/48] call_softirq+0x1c/0x30
Jan 29 22:13:44 master kernel: [<ffffffff8020cd9c>] call_softirq+0x1c/0x30
Jan 29 22:13:44 master kernel: [do_softirq+53/144] do_softirq+0x35/0x90
Jan 29 22:13:44 master kernel: [<ffffffff8020eef5>] do_softirq+0x35/0x90
Jan 29 22:13:44 master kernel: [do_IRQ+128/256] do_IRQ+0x80/0x100
Jan 29 22:13:44 master kernel: [<ffffffff8020f170>] do_IRQ+0x80/0x100
Jan 29 22:13:44 master kernel: [ret_from_intr+0/10] ret_from_intr+0x0/0xa
Jan 29 22:13:44 master kernel: [<ffffffff8020c121>] ret_from_intr+0x0/0xa
Jan 29 22:13:44 master kernel: <EOI> [__copy_user_nocache+35/336] __copy_user_nocache+0x23/0x150
Jan 29 22:13:44 master kernel: <EOI> [<ffffffff803233b3>] __copy_user_nocache+0x23/0x150
Jan 29 22:13:44 master kernel: [__iovec_copy_from_user_inatomic+67/128]
__iovec_copy_from_user_inatomic+0x43/0x80
Jan 29 22:13:44 master kernel: [<ffffffff80273ba3>] __iovec_copy_from_user_inatomic+0x43/0x80
Jan 29 22:13:44 master kernel: [iov_iter_copy_from_user_atomic+163/176]
iov_iter_copy_from_user_atomic+0xa3/0xb0
Jan 29 22:13:44 master kernel: [<ffffffff80273d03>] iov_iter_copy_from_user_atomic+0xa3/0xb0
Jan 29 22:13:44 master kernel: [generic_file_buffered_write+383/1728]
generic_file_buffered_write+0x17f/0x6c0
Jan 29 22:13:44 master kernel: [<ffffffff802756ff>] generic_file_buffered_write+0x17f/0x6c0
Jan 29 22:13:44 master kernel: [__alloc_skb+133/336] __alloc_skb+0x85/0x150
```

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```
Jan 29 22:13:44 master kernel: [<ffffffff803eea15>] __alloc_skb+0x85/0x150
Jan 29 22:13:44 master kernel: [_end+129525959/2130457992] :xfs:xfs_write+0x67f/0x8f0
Jan 29 22:13:44 master kernel: [<ffffffff881c333f>] :xfs:xfs_write+0x67f/0x8f0
Jan 29 22:13:44 master kernel: [_end+129343578/2130457992] :xfs:xfs_iget+0x142/0x160
Jan 29 22:13:44 master kernel: [<ffffffff88196ad2>] :xfs:xfs_iget+0x142/0x160
Jan 29 22:13:44 master kernel: [_end+129509416/2130457992] :xfs:xfs_file_aio_write+0x0/0x50
Jan 29 22:13:44 master kernel: [<ffffffff881bf2a0>] :xfs:xfs_file_aio_write+0x0/0x50
Jan 29 22:13:44 master kernel: [do_sync_readv_writev+203/272] do_sync_readv_writev+0xcb/0x110
Jan 29 22:13:44 master kernel: [<ffffffff8029a46b>] do_sync_readv_writev+0xcb/0x110
Jan 29 22:13:44 master kernel: [autoremove_wake_function+0/48] autoremove_wake_function+0x0/0x30
Jan 29 22:13:44 master kernel: [<ffffffff80251e10>] autoremove_wake_function+0x0/0x30
Jan 29 22:13:44 master kernel: [_end+130243723/2130457992] :exportfs:exportfs_decode_fh+0x93/0x278
Jan 29 22:13:44 master kernel: [<ffffffff88272703>] :exportfs:exportfs_decode_fh+0x93/0x278
Jan 29 22:13:44 master kernel: [<ffffffff88272703>] :exportfs:exportfs_decode_fh+0x93/0x278
Jan 29 22:13:44 master kernel: [_end+130783832/2130457992] :nfsd:nfsd_acceptable+0x0/0x100
Jan 29 22:13:44 master kernel: [<ffffffff882f64d0>] :nfsd:nfsd_acceptable+0x0/0x100
Jan 29 22:13:44 master kernel: [_end+129748673/2130457992] :sunrpc:cache_check+0x49/0x490
Jan 29 22:13:44 master kernel: [<ffffffff881f9939>] :sunrpc:cache_check+0x49/0x490
Jan 29 22:13:44 master kernel: [rw_copy_check_uvector+157/304] rw_copy_check_uvector+0x9d/0x130
Jan 29 22:13:44 master kernel: [<ffffffff8029a2cd>] rw_copy_check_uvector+0x9d/0x130
Jan 29 22:13:44 master kernel: [do_readv_writev+226/528] do_readv_writev+0xe2/0x210
Jan 29 22:13:44 master kernel: [<ffffffff8029abb2>] do_readv_writev+0xe2/0x210
Jan 29 22:13:44 master kernel: [_end+130813642/2130457992] :nfsd:nfsd_setuser+0x82/0x210
Jan 29 22:13:44 master kernel: [<ffffffff882fd942>] :nfsd:nfsd_setuser+0x82/0x210
Jan 29 22:13:44 master kernel: [_end+130782532/2130457992]
:nfsd:nfsd_setuser_and_check_port+0x5c/0x70
Jan 29 22:13:44 master kernel: [<ffffffff882f5fbc>] :nfsd:nfsd_setuser_and_check_port+0x5c/0x70
Jan 29 22:13:44 master kernel: [_end+130788665/2130457992] :nfsd:nfsd_vfs_write+0xf1/0x3a0
Jan 29 22:13:44 master kernel: [<ffffffff882f77b1>] :nfsd:nfsd_vfs_write+0xf1/0x3a0
Jan 29 22:13:44 master kernel: [__dentry_open+408/528] __dentry_open+0x198/0x210
Jan 29 22:13:44 master kernel: [<ffffffff80298ab8>] __dentry_open+0x198/0x210
Jan 29 22:13:44 master kernel: [_end+130790708/2130457992] :nfsd:nfsd_open+0x12c/0x1e0
Jan 29 22:13:44 master kernel: [<ffffffff882f7fac>] :nfsd:nfsd_open+0x12c/0x1e0
Jan 29 22:13:44 master kernel: [_end+130791566/2130457992] :nfsd:nfsd_write+0x106/0x110
Jan 29 22:13:44 master kernel: [<ffffffff882f8306>] :nfsd:nfsd_write+0x106/0x110
Jan 29 22:13:44 master kernel: [_end+130825459/2130457992] :nfsd:nfsd3_proc_write+0x10b/0x160
Jan 29 22:13:44 master kernel: [<ffffffff8830076b>] :nfsd:nfsd3_proc_write+0x10b/0x160
Jan 29 22:13:44 master kernel: [_end+130770937/2130457992] :nfsd:nfsd_dispatch+0xb1/0x220
Jan 29 22:13:44 master kernel: [<ffffffff882f3271>] :nfsd:nfsd_dispatch+0xb1/0x220
Jan 29 22:13:44 master kernel: [_end+129716706/2130457992] :sunrpc:svc_process+0x47a/0x780
Jan 29 22:13:44 master kernel: [<ffffffff881f1c5a>] :sunrpc:svc_process+0x47a/0x780
Jan 29 22:13:44 master kernel: [__down_read+18/177] __down_read+0x12/0xb1
Jan 29 22:13:44 master kernel: [<ffffffff80466242>] __down_read+0x12/0xb1
Jan 29 22:13:44 master kernel: [_end+130772360/2130457992] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:44 master kernel: [<ffffffff882f3800>] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:44 master kernel: [_end+130772771/2130457992] :nfsd:nfsd+0x19b/0x2e0
Jan 29 22:13:44 master kernel: [<ffffffff882f399b>] :nfsd:nfsd+0x19b/0x2e0
Jan 29 22:13:44 master kernel: [child_rip+10/18] child_rip+0xa/0x12
Jan 29 22:13:44 master kernel: [<ffffffff8020ca28>] child_rip+0xa/0x12
Jan 29 22:13:44 master kernel: [_end+130772360/2130457992] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:44 master kernel: [<ffffffff882f3800>] :nfsd:nfsd+0x0/0x2e0
```

2.6.24 Page Allocation Failure

```
Jan 29 22:13:44 master kernel: [_end+130772360/2130457992] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:44 master kernel: [<ffffffff882f3800>] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:44 master kernel: [child_rip+0/18] child_rip+0x0/0x12
Jan 29 22:13:44 master kernel: [<ffffffff8020ca1e>] child_rip+0x0/0x12
Jan 29 22:13:44 master kernel:
Jan 29 22:13:44 master kernel: Mem-info:
Jan 29 22:13:44 master kernel: DMA per-cpu:
Jan 29 22:13:44 master kernel: CPU 0: Hot: hi: 0, btch: 1 usd: 0 Cold: hi: 0, btch: 1 usd: 0
Jan 29 22:13:44 master kernel: CPU 1: Hot: hi: 0, btch: 1 usd: 0 Cold: hi: 0, btch: 1 usd: 0
Jan 29 22:13:44 master kernel: DMA32 per-cpu:
Jan 29 22:13:44 master kernel: CPU 0: Hot: hi: 186, btch: 31 usd: 55 Cold: hi: 62, btch: 15 usd: 60
Jan 29 22:13:44 master kernel: CPU 1: Hot: hi: 186, btch: 31 usd: 183 Cold: hi: 62, btch: 15 usd: 48
Jan 29 22:13:44 master kernel: Active:40766 inactive:437591 dirty:29984 writeback:1045 unstable:0
Jan 29 22:13:44 master kernel: free:4000 slab:18952 mapped:11793 pagetables:1512 bounce:0
Jan 29 22:13:44 master kernel: DMA free:8008kB min:28kB low:32kB high:40kB active:0kB
inactive:1676kB present:11100kB pages_scanned:0 all_unreclaimable? no
Jan 29 22:13:44 master kernel: lowmem_reserve[]: 0 1998 1998 1998
Jan 29 22:13:44 master kernel: DMA32 free:8076kB min:5704kB low:7128kB high:8556kB active:163064kB
inactive:1748688kB present:2046800kB pages_scanned:0 all_unreclaimabl
e? no
Jan 29 22:13:44 master kernel: lowmem_reserve[]: 0 0 0 0
Jan 29 22:13:44 master kernel: DMA: 6*4kB 6*8kB 13*16kB 6*32kB 4*64kB 1*128kB 12*256kB 0*512kB
0*1024kB 0*2048kB 1*4096kB = 8024kB
Jan 29 22:13:44 master kernel: DMA32: 1160*4kB 117*8kB 82*16kB 19*32kB 2*64kB 0*128kB 0*256kB
1*512kB 0*1024kB 0*2048kB 0*4096kB = 8136kB
Jan 29 22:13:44 master kernel: Swap cache: add 45, delete 44, find 0/0, race 0+0
Jan 29 22:13:44 master kernel: Free swap = 4088324kB
Jan 29 22:13:44 master kernel: Total swap = 4088500kB
Jan 29 22:13:44 master kernel: Free swap: 4088324kB
Jan 29 22:13:44 master kernel: 523264 pages of RAM
Jan 29 22:13:44 master kernel: 9510 reserved pages
Jan 29 22:13:44 master kernel: 494203 pages shared
Jan 29 22:13:44 master kernel: 1 pages swap cached
Jan 29 22:13:45 master kernel: nfsd: page allocation failure. order:2, mode:0x4020
Jan 29 22:13:45 master kernel: Pid: 6595, comm: nfsd Not tainted 2.6.24 #1
Jan 29 22:13:45 master kernel:
Jan 29 22:13:45 master kernel: Call Trace:
Jan 29 22:13:45 master kernel: <IRQ> [__alloc_pages+822/912] __alloc_pages+0x336/0x390
Jan 29 22:13:45 master kernel: <IRQ> [<ffffffff80279d66>] __alloc_pages+0x336/0x390
Jan 29 22:13:45 master kernel: [ip_local_deliver_finish+129/512] ip_local_deliver_finish+0x81/0x200
Jan 29 22:13:45 master kernel: [<ffffffff80417611>] ip_local_deliver_finish+0x81/0x200
Jan 29 22:13:45 master kernel: [_end+130301422/2130457992]
:myri10ge:myri10ge_alloc_rx_pages+0x156/0x270
Jan 29 22:13:45 master kernel: [<ffffffff88280866>] :myri10ge:myri10ge_alloc_rx_pages+0x156/0x270
Jan 29 22:13:45 master kernel: [_end+130325174/2130457992] :myri10ge:myri10ge_poll+0x57e/0xae0
Jan 29 22:13:45 master kernel: [<ffffffff8828652e>] :myri10ge:myri10ge_poll+0x57e/0xae0
Jan 29 22:13:45 master kernel: [_spin_lock_bh+9/32] _spin_lock_bh+0x9/0x20
Jan 29 22:13:45 master kernel: [<ffffffff80466819>] _spin_lock_bh+0x9/0x20
Jan 29 22:13:45 master kernel: [_end+129719928/2130457992] :sunrpc:svc_sock_enqueue+0x80/0x340
Jan 29 22:13:45 master kernel: [<ffffffff881f28f0>] :sunrpc:svc_sock_enqueue+0x80/0x340
Jan 29 22:13:45 master kernel: [net_rx_action+153/448] net_rx_action+0x99/0x1c0
```

2.6.24 Page Allocation Failure

```
Jan 29 22:13:45 master kernel: [<ffffffff803f6729>] net_rx_action+0x99/0x1c0
Jan 29 22:13:45 master kernel: [__do_softirq+105/224] __do_softirq+0x69/0xe0
Jan 29 22:13:45 master kernel: [<ffffffff80241db9>] __do_softirq+0x69/0xe0
Jan 29 22:13:45 master kernel: [call_softirq+28/48] call_softirq+0x1c/0x30
Jan 29 22:13:45 master kernel: [<ffffffff8020cd9c>] call_softirq+0x1c/0x30
Jan 29 22:13:45 master kernel: [do_softirq+53/144] do_softirq+0x35/0x90
Jan 29 22:13:45 master kernel: [<ffffffff8020eef5>] do_softirq+0x35/0x90
Jan 29 22:13:45 master kernel: [do_IRQ+128/256] do_IRQ+0x80/0x100
Jan 29 22:13:45 master kernel: [<ffffffff8020f170>] do_IRQ+0x80/0x100
Jan 29 22:13:45 master kernel: [ret_from_intr+0/10] ret_from_intr+0x0/0xa
Jan 29 22:13:45 master kernel: [<ffffffff8020c121>] ret_from_intr+0x0/0xa
Jan 29 22:13:45 master kernel: <EOI> [block_write_begin+21/224] block_write_begin+0x15/0xe0
Jan 29 22:13:45 master kernel: <EOI> [<ffffffff802c03b5>] block_write_begin+0x15/0xe0
Jan 29 22:13:45 master kernel: [_end+129490730/2130457992] :xfs:xfs_vm_write_begin+0x22/0x30
Jan 29 22:13:45 master kernel: [<ffffffff881ba9a2>] :xfs:xfs_vm_write_begin+0x22/0x30
Jan 29 22:13:45 master kernel: [_end+129492696/2130457992] :xfs:xfs_get_blocks+0x0/0x10
Jan 29 22:13:45 master kernel: [<ffffffff881bb150>] :xfs:xfs_get_blocks+0x0/0x10
Jan 29 22:13:45 master kernel: [generic_file_buffered_write+328/1728]
generic_file_buffered_write+0x148/0x6c0
Jan 29 22:13:45 master kernel: [<ffffffff802756c8>] generic_file_buffered_write+0x148/0x6c0
Jan 29 22:13:45 master kernel: [__alloc_skb+133/336] __alloc_skb+0x85/0x150
Jan 29 22:13:45 master kernel: [<ffffffff803eea15>] __alloc_skb+0x85/0x150
Jan 29 22:13:45 master kernel: [_end+129525959/2130457992] :xfs:xfs_write+0x67f/0x8f0
Jan 29 22:13:45 master kernel: [<ffffffff881c333f>] :xfs:xfs_write+0x67f/0x8f0
Jan 29 22:13:45 master kernel: [_end+129343578/2130457992] :xfs:xfs_iget+0x142/0x160
Jan 29 22:13:45 master kernel: [<ffffffff88196ad2>] :xfs:xfs_iget+0x142/0x160
Jan 29 22:13:45 master kernel: [_end+129509416/2130457992] :xfs:xfs_file_aio_write+0x0/0x50
Jan 29 22:13:45 master kernel: [<ffffffff881bf2a0>] :xfs:xfs_file_aio_write+0x0/0x50
Jan 29 22:13:45 master kernel: [do_sync_readv_writev+203/272] do_sync_readv_writev+0xcb/0x110
Jan 29 22:13:45 master kernel: [<ffffffff8029a46b>] do_sync_readv_writev+0xcb/0x110
Jan 29 22:13:45 master kernel: [autoremove_wake_function+0/48] autoremove_wake_function+0x0/0x30
Jan 29 22:13:45 master kernel: [<ffffffff80251e10>] autoremove_wake_function+0x0/0x30
Jan 29 22:13:45 master kernel: [_end+130243723/2130457992] :exportfs:exportfs_decode_fh+0x93/0x278
Jan 29 22:13:45 master kernel: [<ffffffff88272703>] :exportfs:exportfs_decode_fh+0x93/0x278
Jan 29 22:13:45 master kernel: [_end+130783832/2130457992] :nfsd:nfsd_acceptable+0x0/0x100
Jan 29 22:13:45 master kernel: [<ffffffff882f64d0>] :nfsd:nfsd_acceptable+0x0/0x100
Jan 29 22:13:45 master kernel: [_end+129748673/2130457992] :sunrpc:cache_check+0x49/0x490
Jan 29 22:13:45 master kernel: [<ffffffff881f9939>] :sunrpc:cache_check+0x49/0x490
Jan 29 22:13:45 master kernel: [rw_copy_check_uvector+157/304] rw_copy_check_uvector+0x9d/0x130
Jan 29 22:13:45 master kernel: [<ffffffff8029a2cd>] rw_copy_check_uvector+0x9d/0x130
Jan 29 22:13:45 master kernel: [do_readv_writev+226/528] do_readv_writev+0xe2/0x210
Jan 29 22:13:45 master kernel: [<ffffffff8029abb2>] do_readv_writev+0xe2/0x210
Jan 29 22:13:45 master kernel: [_end+130813642/2130457992] :nfsd:nfsd_setuser+0x82/0x210
Jan 29 22:13:45 master kernel: [<ffffffff882fd942>] :nfsd:nfsd_setuser+0x82/0x210
Jan 29 22:13:45 master kernel: [_end+130782532/2130457992]
:nfsd:nfsd_setuser_and_check_port+0x5c/0x70
Jan 29 22:13:45 master kernel: [<ffffffff882f5fbc>] :nfsd:nfsd_setuser_and_check_port+0x5c/0x70
Jan 29 22:13:45 master kernel: [_end+130788665/2130457992] :nfsd:nfsd_vfs_write+0xf1/0x3a0
Jan 29 22:13:45 master kernel: [<ffffffff882f77b1>] :nfsd:nfsd_vfs_write+0xf1/0x3a0
Jan 29 22:13:45 master kernel: [__dentry_open+408/528] __dentry_open+0x198/0x210
Jan 29 22:13:45 master kernel: [<ffffffff80298ab8>] __dentry_open+0x198/0x210
```

2.6.24 Page Allocation Failure

```
Jan 29 22:13:45 master kernel: [_end+130790708/2130457992] :nfsd:nfsd_open+0x12c/0x1e0
Jan 29 22:13:45 master kernel: [<ffffffff882f7fac>] :nfsd:nfsd_open+0x12c/0x1e0
Jan 29 22:13:45 master kernel: [_end+130791566/2130457992] :nfsd:nfsd_write+0x106/0x110
Jan 29 22:13:45 master kernel: [<ffffffff882f8306>] :nfsd:nfsd_write+0x106/0x110
Jan 29 22:13:45 master kernel: [_end+130825459/2130457992] :nfsd:nfsd3_proc_write+0x10b/0x160
Jan 29 22:13:45 master kernel: [<ffffffff8830076b>] :nfsd:nfsd3_proc_write+0x10b/0x160
Jan 29 22:13:45 master kernel: [_end+130770937/2130457992] :nfsd:nfsd_dispatch+0xb1/0x220
Jan 29 22:13:45 master kernel: [<ffffffff882f3271>] :nfsd:nfsd_dispatch+0xb1/0x220
Jan 29 22:13:45 master kernel: [_end+129716706/2130457992] :sunrpc:svc_process+0x47a/0x780
Jan 29 22:13:45 master kernel: [<ffffffff881f1c5a>] :sunrpc:svc_process+0x47a/0x780
Jan 29 22:13:45 master kernel: [__down_read+18/177] __down_read+0x12/0xb1
Jan 29 22:13:45 master kernel: [<ffffffff80466242>] __down_read+0x12/0xb1
Jan 29 22:13:45 master kernel: [_end+130772360/2130457992] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:45 master kernel: [<ffffffff882f3800>] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:45 master kernel: [_end+130772771/2130457992] :nfsd:nfsd+0x19b/0x2e0
Jan 29 22:13:45 master kernel: [<ffffffff882f399b>] :nfsd:nfsd+0x19b/0x2e0
Jan 29 22:13:45 master kernel: [child_rip+10/18] child_rip+0xa/0x12
Jan 29 22:13:45 master kernel: [<ffffffff8020ca28>] child_rip+0xa/0x12
Jan 29 22:13:45 master kernel: [_end+130772360/2130457992] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:45 master kernel: [<ffffffff882f3800>] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:45 master kernel: [_end+130772360/2130457992] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:45 master kernel: [<ffffffff882f3800>] :nfsd:nfsd+0x0/0x2e0
Jan 29 22:13:45 master kernel: [child_rip+0/18] child_rip+0x0/0x12
Jan 29 22:13:45 master kernel: [<ffffffff8020ca1e>] child_rip+0x0/0x12
Jan 29 22:13:45 master kernel:
Jan 29 22:13:45 master kernel: Mem-info:
Jan 29 22:13:45 master kernel: DMA per-cpu:
Jan 29 22:13:45 master kernel: CPU 0: Hot: hi: 0, btch: 1 usd: 0 Cold: hi: 0, btch: 1 usd: 0
Jan 29 22:13:45 master kernel: CPU 1: Hot: hi: 0, btch: 1 usd: 0 Cold: hi: 0, btch: 1 usd: 0
Jan 29 22:13:45 master kernel: DMA32 per-cpu:
Jan 29 22:13:45 master kernel: CPU 0: Hot: hi: 186, btch: 31 usd: 156 Cold: hi: 62, btch: 15 usd: 48
Jan 29 22:13:45 master kernel: CPU 1: Hot: hi: 186, btch: 31 usd: 73 Cold: hi: 62, btch: 15 usd: 56
Jan 29 22:13:45 master kernel: Active:40772 inactive:437908 dirty:24942 writeback:1051 unstable:0
Jan 29 22:13:45 master kernel: free:3819 slab:18993 mapped:11793 pagetables:1512 bounce:0
Jan 29 22:13:45 master kernel: DMA free:8008kB min:28kB low:32kB high:40kB active:0kB inactive:400kB
present:11100kB pages_scanned:0 all_unreclaimable? no
Jan 29 22:13:45 master kernel: lowmem_reserve[]: 0 1998 1998 1998
Jan 29 22:13:45 master kernel: DMA32 free:7268kB min:5704kB low:7128kB high:8556kB active:163088kB
inactive:1751232kB present:2046800kB pages_scanned:0 all_unreclaimabl
e? no
Jan 29 22:13:45 master kernel: lowmem_reserve[]: 0 0 0 0
Jan 29 22:13:45 master kernel: DMA: 10*4kB 8*8kB 17*16kB 13*32kB 7*64kB 5*128kB 8*256kB
0*512kB 0*1024kB 0*2048kB 1*4096kB = 8024kB
Jan 29 22:13:45 master kernel: DMA32: 1555*4kB 0*8kB 1*16kB 1*32kB 1*64kB 1*128kB 1*256kB
1*512kB 0*1024kB 0*2048kB 0*4096kB = 7228kB
Jan 29 22:13:45 master kernel: Swap cache: add 45, delete 44, find 0/0, race 0+0
Jan 29 22:13:45 master kernel: Free swap = 4088324kB
Jan 29 22:13:45 master kernel: Total swap = 4088500kB
Jan 29 22:13:45 master kernel: Free swap: 4088324kB
Jan 29 22:13:45 master kernel: 523264 pages of RAM
```

2.6.24 Page Allocation Failure

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