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Subject: Re: 0:tcpndbuf running full [was: Could NPTL cause problems?]

Posted by [mephisto](#) on Fri, 07 Apr 2006 16:57:36 GMT

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OK, I narrowed it down. First of all I'm still unable to use i2o\_block, but that's also the case for vanilla kernels, so I gave it up for now.

More importantly I was finally able to diagnose my crashes. I watched the host closely while it was under heavy network load (samba mostly and some rsync). When the errors appeared (network connection very slow, until the host is unreachable). I checked /proc/user\_beancounters and found this:

Version: 2.5

| uid  | resource     | held       | maxheld    | barrier    | limit      | failcnt |
|------|--------------|------------|------------|------------|------------|---------|
| 0:   | kmemsize     | 5500576    | 9732444    | 2147483647 | 2147483647 | 0       |
|      | lockedpages  | 1027       | 1027       | 2147483647 | 2147483647 | 0       |
|      | privvmpages  | 19654      | 53732      | 2147483647 | 2147483647 | 0       |
|      | shmpages     | 1326       | 1345       | 2147483647 | 2147483647 | 0       |
|      | dummy        | 0          | 0          | 2147483647 | 2147483647 | 0       |
|      | numproc      | 64         | 153        | 2147483647 | 2147483647 | 0       |
|      | physpages    | 5236       | 16629      | 2147483647 | 2147483647 | 0       |
|      | vmguarpages  | 0          | 0          | 2147483647 | 2147483647 | 0       |
|      | oomguarpages | 5280       | 16673      | 2147483647 | 2147483647 | 0       |
|      | numtcpsock   | 23         | 109        | 2147483647 | 2147483647 | 0       |
|      | numflock     | 66         | 569        | 2147483647 | 2147483647 | 0       |
|      | numpty       | 2          | 2          | 2147483647 | 2147483647 | 0       |
|      | numsiginfo   | 0          | 69         | 2147483647 | 2147483647 | 0       |
|      | tcpndbuf     | 2147163432 | 2147486264 | 2147483647 | 2147483647 | 2898    |
|      | tcprcvbuf    | 13112      | 843416     | 2147483647 | 2147483647 | 0       |
|      | othersockbuf | 44320      | 2678104    | 2147483647 | 2147483647 | 0       |
|      | dgramrcvbuf  | 0          | 26960      | 2147483647 | 2147483647 | 0       |
|      | numothersock | 34         | 50         | 2147483647 | 2147483647 | 0       |
|      | dcachesize   | 3643446    | 4167100    | 2147483647 | 2147483647 | 0       |
|      | numfile      | 535        | 2536       | 2147483647 | 2147483647 | 0       |
|      | dummy        | 0          | 0          | 2147483647 | 2147483647 | 0       |
|      | dummy        | 0          | 0          | 2147483647 | 2147483647 | 0       |
|      | dummy        | 0          | 0          | 2147483647 | 2147483647 | 0       |
|      | numiptent    | 0          | 0          | 2147483647 | 2147483647 | 0       |
| 101: | kmemsize     | 5550088    | 5980112    | 105495756  | 116045331  | 0       |
|      | lockedpages  | 0          | 0          | 5151       | 5151       | 0       |
|      | privvmpages  | 311785     | 386062     | 2147483647 | 2147483647 | 0       |
|      | shmpages     | 2655       | 3295       | 7726       | 7726       | 0       |
|      | dummy        | 0          | 0          | 0          | 0          | 0       |
|      | numproc      | 163        | 178        | 8000       | 8000       | 0       |
|      | physpages    | 66399      | 67751      | 0          | 2147483647 | 0       |
|      | vmguarpages  | 0          | 0          | 77267      | 2147483647 | 0       |
|      | oomguarpages | 66399      | 67751      | 200000     | 2147483647 | 0       |
|      | numtcpsock   | 20         | 31         | 8000       | 8000       | 0       |
|      | numflock     | 14         | 21         | 1000       | 1100       | 0       |

|              |         |         |          |            |   |   |
|--------------|---------|---------|----------|------------|---|---|
| numpty       | 0       | 1       | 512      | 512        | 0 |   |
| numsiginfo   | 0       | 3       | 1024     | 1024       | 0 |   |
| tcpsndbuf    | 3239936 | 3333776 | 23792300 | 35147230   |   | 0 |
| tcprcvbuf    | 1192    | 159528  | 2397252  | 35165252   |   | 0 |
| othersockbuf | 28128   | 85104   | 20480000 | 2147483647 |   | 0 |
| dgramrcvbuf  | 0       | 243168  | 1198626  | 1198626    |   | 0 |
| numothersock | 24      | 53      | 8000     | 8000       | 0 |   |
| dcachesize   | 402711  | 456183  | 23031052 | 23721984   |   | 0 |
| numfile      | 3530    | 4337    | 41184    | 41184      | 0 |   |
| dummy        | 0       | 0       | 0        | 0          | 0 |   |
| dummy        | 0       | 0       | 0        | 0          | 0 |   |
| dummy        | 0       | 0       | 0        | 0          | 0 |   |
| numiptent    | 0       | 0       | 200      | 200        | 0 |   |

So the host's tcpsndbuf is running full. I should mention that I moved eth1 to the vps with NETDEV="eth1". This is the major configuration difference to my test system that runs fine with a venet0 interface.

The error also occurred without the vps loaded and traffic occurring just on the not virtualized eth0 interface. I've seen the error with 2.6.15-025stab014 and 2.6.16-026stab007. Do you need any more information?

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