Subject: Re: [PATCH 0/9] namespaces: Introduction Posted by serue on Sun, 21 May 2006 16:27:59 GMT View Forum Message <> Reply to Message

Quoting Eric W. Biederman (ebiederm@xmission.com): > "Serge E. Hallyn" <serue@us.ibm.com> writes: > > > This patchset introduces a per-process utsname namespace. These can > > be used by openvz, vserver, and application migration to virtualize and > > isolate utsname info (i.e. hostname). More resources will follow, until > > hopefully most or all vserver and openvz functionality can be implemented > > by controlling resource namespaces from userspace. > > > > Previous utsname submissions placed a pointer to the utsname namespace > > straight in the task_struct. This patchset (and the last one) moves > > it and the filesystem namespace pointer into struct nsproxy, which is > > shared by processes sharing all namespaces. The intent is to keep > > the taskstruct smaller as the number of namespaces grows. > > > Previously you mentioned: > > BTW - a first set of comparison results showed nsproxy to have better > > dbench and tbench throughput, and worse kernbench performance. Which > > may make sense given that nsproxy results in lower memory usage but > > likely increased cache misses due to extra pointer dereference. > > Is this still true? Or did our final reference counting tweak fix > the kernbench numbers? > > I just want to be certain that we don't add an optimization, > that reduces performance. Here are the numbers with the basic patchsets. But I guess I should do another round with adding 7 more void*'s to represent additional namespaces. (intervals are for 95% CI, tests were each run 15 times) | with nsproxy | without nsproxy |

kernbench | 68.90 +/- 0.21 | 69.06 +/- 0.22 | dbench | 386.0 +/- 26.6 | 388.4 +/- 21.0 | tbench | 391.6 +/- 8.00 | 389.4 +/- 10.95 |

reaim with nsproxy 1 115600.000000 5512.441557 3 246985.712000 9375.780582 5 272309.092000 8029.833742 7 290020.000000 7288.367116 9 298591.580000 5557.531915 11 nan nan 13 nan nan 15 nan nan

reaim without nsproxy 1 110160.000000 5728.697311 3 246985.712000 9375.780582 5 262204.197333 11138.510652 7 288660.000000 6880.898412 9 300631.580000 4351.926692 11 nan nan 13 nan nan 13 nan nan

