Subject: Re: [RFC][PATCH 0/5] uts namespaces: Introduction Posted by dev on Tue, 11 Apr 2006 12:27:45 GMT

View Forum Message <> Reply to Message

Serge,

- > This patchset is based on Kirill Korotaev's Mar 24 submission, taking
- > comments (in particular from James Morris and Eric Biederman) into
- > account.

thanks a lot for doing this!

- > Some performance results are attached. I was mainly curious whether
- > it would be worth putting the task_struct->uts_ns pointer inside
- > a #ifdef CONFIG_UTS_NS. The result show that leaving it in when
- > CONFIG_UTS_NS=n has negligable performance impact, so that is the
- > approach this patch takes.

Serge, your testing approach looks really strange for me.

First of all, you selected the worst namespace to check performance overhead on.

- 1) uts_ns is rarely used and never used on hot paths,
- 2) also all these test suites below doesn't test the code paths you modified.

So I wonder what was the goal of these tests, especially dbench?!

```
Thanks,
Kirill
>
> -serge
> Performance testing was done on a 2-cpu hyperthreaded
> x86 box with 16G ram. The following tests were run:
> dbench (20 times, four clients, on reiser fs non-isolated partition)
> tbench (20 times, 5 connections)
> kernbench (20 times)
> reaim (20 times ranging from 1 to 15 users)
>
> They were run on 2.6.17-rc1:
> pristine
> patched, but with !CONFIG UTS NS ("disabled")
 patched with CONFIG_UTS_NS=y ("enabled")
>
> All results are presented as means +/- 95% confidence interval.
>
> Dbench results:
> pristine:
               387.080727 +/- 9.344585
```

> patched disabled: 389.524364 +/- 9.574921

```
> patched enabled: 370.155600 +/- 30.127808
>
> Tbench results:
> pristine:
              388.940100 +/- 18.095104
> patched disabled: 389.173700 +/- 23.658035
> patched enabled: 394.333200 +/- 25.813393
>
> Kernbench results:
              70.317500 +/- 0.210833
> pristine:
> patched, disabled: 70.860000 +/- 0.179292
> patched, enabled: 70.346500 +/- 0.184784
> Reaim results:
> pristine:
      Nclients
                Mean
                           95% CI
>
>
       1
           106080.000000 11327.896029
        3
           236057.142000 18205.544810
>
           247867.136000 23536.800062
       5
>
       7
           265370.000000 21284.335743
>
       9
           262969.936000 18225.497529
>
            278256.000000 6230.342816
       11
>
       13
            284288.016000 8924.589388
>
       15
            286987.170000 7881.034658
>
>
 patched, disabled:
                           95% CI
      Nclients
>
                 Mean
           105400.000000 8739.978241
       1
>
       3
           229500.000000 0.000000
>
       5
           252325.176667 16685.663423
>
       7
           265125.000000 6747.777319
>
       9
           271258.645000 11715.635212
>
       11
           280662.608333 7775.229351
>
       13
            277719.706667 8173.390359
>
       15
            278515.421667 10963.211450
>
>
 patched, enabled:
      Nclients
                Mean
                           95% CI
>
        1
           102000.000000 0.000000
>
       3
           224400.000000 14159.870036
>
       5
           242963,288000 40529,490781
>
       7
           255150.000000 8745.802081
>
       9
           270154.284000 8918.863136
>
       11
            283134.260000 12239.361252
>
           288497.540000 11336.550964
       13
>
       15
            280022.728000 8804.882369
>
>
```