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Subject: Re: [RFC][PATCH 0/5] uts namespaces: Introduction

Posted by [dev](#) on Tue, 11 Apr 2006 12:27:45 GMT

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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 negligible 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

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> 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:
> pristine:      70.317500 +/- 0.210833
> 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
>      5  247867.136000 23536.800062
>      7  265370.000000 21284.335743
>      9  262969.936000 18225.497529
>     11  278256.000000 6230.342816
>     13  284288.016000 8924.589388
>     15  286987.170000 7881.034658
>
> patched, disabled:
>      Nclients    Mean      95% CI
>      1  105400.000000 8739.978241
>      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
>     13  288497.540000 11336.550964
>     15  280022.728000 8804.882369
>
>

```