

Re: settimeofday function taking 24 – 30 minutes to complete

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*Source:* <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2006-12/msg00539.html>

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- *From:* "M. Warner Losh" <[imp@xxxxxxxxxx](mailto:imp@xxxxxxxxxx)>
  - *Date:* Wed, 20 Dec 2006 18:55:14 -0700 (MST)
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In message: <45889598.3030408@xxxxxxxxxxxxxxxxxxxx>  
Garrett Cooper <[youshi10@xxxxxxxxxxxxxxxxxxxx](mailto:youshi10@xxxxxxxxxxxxxxxxxxxx)> writes:  
: Scot Hetzel wrote:  
: > On 12/19/06, Mark Kirkwood <[markir@xxxxxxxxxxxxxxxxxxxx](mailto:markir@xxxxxxxxxxxxxxxxxxxx)> wrote:  
: >> Mark Kirkwood wrote:  
: >>  
: >>> Just tried out this on 6-STABLE  
: >>>  
: >>>> I can't get the hang at all (with or without thee extra includes):  
: >>>>  
: >>>> # time ./settimetest  
: >>>> INFO: Saved current time  
: >>>> INFO: settimeofday completed sucessfully  
: >>>> INFO: Reset time to original value  
: >>>> 0.000u 0.002s 0:00.00 0.0% 0+0k 0+0io 0pf+0w  
: >>>>  
: >>>>  
: >>> Oops – thought I was reading –stable instead of –current list  
: >>> (doh).. sorry! Well at least you know it can work on \*some\* version of  
: >>> FreeBSD!....(I don't have any machines running –current at the moment to  
: >>> test).  
: >>>  
: >>  
: > Here's the time for the test on FreeBSD/amd64 –CURRENT, update yesterday.  
: >  
: > hp010# date ; time ./t1 ; date  
: > Tue Dec 19 19:07:33 CST 2006  
: > INFO: Saved current time  
: > INFO: settimeofday completed sucessfully  
: > INFO: Reset time to original value  
: > 0.000u 1469.241s 0:00.00 0.0% 5+175k 0+0io 0pf+0w  
: > Tue Dec 19 19:07:33 CST 2006  
: > hp010# date 200612191933  
: > Tue Dec 19 19:33:00 CST 2006  
: >  
: > Scot  
: Well, I'll find a random unused machine, setup FreeBSD on it with vmware  
: and then try that out. Seems interesting that it takes 30 minutes to run

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: instead of being done almost instantaneously.

It does run almost instantly if you use a time from 2000. The date command also causes the lockup if you say 'date 1970010100140' as well. Looks like there's a loop in the kernel to do division, but I can't quite find where it is.

If you have a good test setup, maybe you can do a binary search in the settimeofday code to find why a large leap backwards causes problems.

Warner

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freebsd-current@xxxxxxxxxxx mailing list

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