

Re: The effects of WITNESS and INVARIANTS

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2004-02/0054.html>

From: Willem Jan Withagen (wjw_at_withagen.nl)

Date: 02/24/04

To: "Robert Watson" <rwatson@FreeBSD.ORG>

Date: Tue, 24 Feb 2004 23:10:47 +0100

From: "Robert Watson" <rwatson@FreeBSD.ORG>

> On Tue, 24 Feb 2004, Willem Jan Withagen wrote:

>

>> *Just out of curiosity, and 'cause I've got some idle boxes, I started to do some (NFS-)performance testing. There is still a long way to go, but I've but a first obvious result online running on the local server disk.*

>>

>> *It makes the claims of the effects of WITNESS and INVARIANTS very obvious. Look especially at the graph for "Sequential block read".*

>>

>> *You might want to have a look at:*

>> *<http://withagen.dyndns.org/FreeBSD/nfs-performance/index.html>. Note that no NFS data is included. I have some Bonnie-NFS data, but need to write accompanying test and conclusions for it.*

>>

>> *Suggestions are more than welcomed.*

>

> *My primary suggestion is "Turn off WITNESS and INVARIANTS when benchmarking or for production systems". We turn them off in releases, and once 5.x becomes 5-stable, we'll turn it off by default also. However, they're invaluable tools when debugging the development system, so we have them on in the development branch by default. I would encourage people to generally run with them turned on unless performance of a system requires them to be off, as it really helps the debugging process, as well as helping to identify locking problems as the system evolves.*

Hi Robert,

I understand your concern and will take your remark as made here, and put it in the document as a "Nota Bene"...

And I'll emphasise the fact that the 5-stable fact is the turning corner for this matter.

--WjW

freebsd-performance@freebsd.org mailing list

freebsd-performance: Re: The effects of WITNESS and INVARIANTS

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