

ZFS Evil Tuning Guide

Overview

Tuning is Evil

Tuning is often evil and should rarely be done.

First, consider that the default values are set by the people who know the most about the effects of the tuning on the software that they supply. If a better value exists, it should be the default. While alternative values might help a given workload, it could quite possibly degrade some other aspects of performance. Occasionally, catastrophically so.

Over time, tuning recommendations might become stale at best or might lead to performance degradations. Customers are leery of changing a tuning that is in place and the net effect is a worse product than what it could be. Moreover, tuning enabled on a given system might spread to other systems, where it might not be warranted at all.

Nevertheless, it is understood that customers who carefully observe their own system may understand aspects of their workloads that cannot be anticipated by the defaults. In such cases, the tuning information below may be applied, provided that one works to carefully understand its effects.

If you must implement a ZFS tuning parameter, please reference the URL of this document:

http://www.solarisinternals.com/wiki/index.php/ZFS_Evil_Tuning_Guide

Review ZFS Best Practices Guide

On the other hand, ZFS best practices are things we encourage people to use. They are a set of recommendations that have been shown to work in different environments and are expected to keep working in the foreseeable future. So, before turning to tuning, make sure you've read and understood the best practices around deploying a ZFS environment that are described here:

http://www.solarisinternals.com/wiki/index.php/ZFS_Best_Practices_Guide

Identify ZFS Tuning Changes

The syntax for enabling a given tuning recommendation has changed over the life of ZFS releases. So, when upgrading to newer releases, make sure that the tuning recommendations are still effective. If you decide to use a tuning recommendation, reference this page in the `/etc/system` file or in the associated script.

The Tunables

In no particular order:

- [CHECKSUMS](#)
- [ARCSIZE](#)
- [ZFETCH](#)
- [VDEVPE](#)
- [MAXPEND](#)
- [FLUSH](#)
- [ZIL](#)
- [METACOMP](#)
- [IMMSZ](#)

Tuning ZFS Checksums

End-to-end checksumming is one of the great features of ZFS. It allows ZFS to detect and correct many kinds of errors other products can't detect and correct. Disabling checksum is, of course, a very bad idea.

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TD Snyder



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