

Asynchronous Write Mode in Melio™ 2010

Technote



About this Technote

This technote describes a new setting in Melio 2010 that allows Melio FS to write data to volumes in asynchronous mode.

If, after reading this technote, you have any questions, please contact Sanbolic Technical Support at 617-402-2029 or email us at support@sanbolic.com.

Asynchronous write mode in Melio 2010

Starting with Melio 2010, a new process called “System” has been added in the **Per Process Tweaks** section of the Melio Configuration utility (*Start > All Programs > Sanbolic > Melio Configuration*).

This process, which is set to “1” or *enabled* by default, allows Melio FS to write data to volumes asynchronously, offering a significant improvement in overall write performance. Writing data in asynchronous mode also allows Microsoft® Hyper-V™ virtual machines or Citrix® Provisioning Services™ target devices to boot off new VHDs after the initial installation of an operating system.

In previous versions of Melio FS, write requests were grouped and sent to disk in bursts in an effort to reduce the overhead associated with writing data to disk every time an application issued a write request to the file system. Because of the performance improvements introduced in Melio 2010, this grouping method has been removed and the ability to write data asynchronously has been enabled to allow Melio FS to write data to disk immediately after receiving a write request.

In the event that an application encounters issues with asynchronous writes, an administrator can disable this mode by changing the value of the “System” process to “0”. The change *must* be applied on each server participating in a Melio cluster and the servers *must* be rebooted for the change to take effect.

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