

Re: dump/restore corrupted filesystems

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2007-04/msg01347.html>

- *From:* Jerry McAllister <jerrymc@xxxxxxx>
 - *Date:* Wed, 18 Apr 2007 17:22:43 -0400
-

On Wed, Apr 18, 2007 at 04:09:22PM -0500, CyberLeo Kitsana wrote:

Roland Smith wrote:

Sorry if I wasn't clear. Most all of the data is readable and complete if I mount the filesystem read-only. It just panics the box when mounted read/write, and fsck can't fix the damage.

That might be worth filing a PR for, especially the panics.

Exactly what is damaged? Garbage in files? Wrong inode counts? I've had unclean filesystems because of panics, but nothing fsck_ffs couldn't fix.

You might want to check the hardware too. Use smartmontools in case of (S)ATA drives.

Smart says that the drives are fine, as does the manufacturer's disk fitness tools. All the files that are readable contain correct data, but the files that are corrupt are totally not readable, and cannot even be removed manually:

Given that, I would try to make a dump(8) of it. If dump dies on a particular file, try to exclude that file from the dump either by rm-ing it or setting a nodump flag and try again. You may not actually be able to do the rm or nodump flag though if you cannot mount it with write permission. You might be able to force it mounted without doing the fsck in single user.

Note that tar allows you to specify exclusions. I usually don't suggest using tar for mass moves because it has weaknesses with hard links and might also not transfer flags and permissions correctly. But, if tar is what it takes, then use it.

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Good luck,

///jerry

--8<--

rsync: readlink

"/raid/Backup/Pizzabox/2007-02-23/cyberleo/secondlife/linux/SecondLife_i686_1_13_2_15/skins/xui/es"

failed: Bad file descriptor (9)

rsync: readlink

"/raid/Backup/Pizzabox/2007-02-23/cyberleo/secondlife/linux/SecondLife_i686_1_13_2_15/skins/xui/fr"

failed: Bad file descriptor (9)

--8<--

fsck_ufs dies after about 30 minutes of grinding with the following:

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** Phase 2 - Check Pathnames

DIRECTORY CORRUPTED I=93409222 OWNER=1002 MODE=40755

SIZE=512 MTIME=Feb 10 00:49 2007

DIR=?

UNEXPECTED SOFT UPDATE INCONSISTENCY

SALVAGE? no

MISSING '.' I=93409222 OWNER=1002 MODE=40755

SIZE=512 MTIME=Feb 10 00:49 2007

DIR=?

UNEXPECTED SOFT UPDATE INCONSISTENCY

CANNOT FIX, FIRST ENTRY IN DIRECTORY CONTAINS

UNEXPECTED SOFT UPDATE INCONSISTENCY

fsck_ufs: inoinfo: inumber -1170056596 out of range

--8<--

(full output is at

<http://home.cyberleo.net/cyberleo/workspace/Zip/Bugs/fbsd-20070320-corr/saba-fsck-raid.txt>

)

It's possible this might be a result of the odd interaction between

geom_raid5 and UFS, as discovered in January (

http://www.nabble.com/geom_raid5-livelock--p8304142.html), but I can't

be sure.

I've already chalked this up to just an unfortunate occurrence, as the circumstances that caused the corruption in the first place are likely

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either long gone or so obscure as to be nearly impossible for me to root out.

Looking at /usr/src/sbin/dump/traverse.c, dump traverses the used inodes list and all directories. So if any of these is corrupt, your dump will be too. And if the contents of the inodes is corrupted, so will the dump.

Thanks for this insight. I'll avoid dump/restore and just use manual copying for now.

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Fuzzy love,
-CyberLeo
Technical Administrator
CyberLeo.Net Webhosting
<http://www.CyberLeo.Net>
<CyberLeo@xxxxxxxxxxxx>

Furry Peace! - <http://www.fur.com/peace/>

freebsd-questions@xxxxxxxxxxxx mailing list
<http://lists.freebsd.org/mailman/listinfo/freebsd-questions>
To unsubscribe, send any mail to "freebsd-questions-unsubscribe@xxxxxxxxxxxx"

freebsd-questions@xxxxxxxxxxxx mailing list
<http://lists.freebsd.org/mailman/listinfo/freebsd-questions>
To unsubscribe, send any mail to "freebsd-questions-unsubscribe@xxxxxxxxxxxx"