

Segfaults in mkdir under high load. Software or hardware?

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-08/0789.html>

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Date: 08/03/05

To: linux-kernel <linux-kernel@vger.kernel.org>

Date: Wed, 03 Aug 2005 14:14:03 +0200

Hi,

I am experiencing segfaults in mkdir, and mkdir alone, under high load. I have tried to eliminate the RAM by letting memtest86plus run overnight (no errors found). dmesg does report other filesystem related segfaults and some others that I am not so sure of.

I am not really qualified to guess whether this is software or hardware so please see this mail as information for those more qualified. Info below.

Regards,
jules

Hardware

Dual AMD Opteron 252.

8x1GB ECC RAM (CMX1024RE-3200-Black).

LSI Logic MegaRAID SCSI 320-4X.

4 Seagate Cheetah 73.4 GB 15KRPM Ultra 320 68pin SCSI in raid5 (ST373453LW).

Tyan Thunder K8W S2885.

Kernel gentoo-sources 2.6.12-r6.

Most filesystems mounted as reiserfs with noatime and notail.

Output of script

```
./memtest.sh: line 107: 19536 Segmentation fault mkdir $j
```

```
./memtest.sh: line 107: 19553 Segmentation fault mkdir $j
```

```
Inconsistency detected by ld.so: dynamic-link.h: 151: elf_get_dynamic_info: Assertion `info[20]->d_un.d_val == 7' failed!
```

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```
##### /var/log/messages #####
```

```
Aug 2 10:43:33 omc-2 [393507.742750] mkdir[19536]: segfault at 0000000000000000 rip  
000000000040184d rsp 00007ffffe2c4b0 error 4
```

```
Aug 2 10:43:33 omc-2 [393507.818660] mkdir[19553]: segfault at 0000000000000000 rip  
000000000040184d rsp 00007ffffdb2e0 error 4
```

```
##### The script #####
```

```
#!/bin/bash
```

```
#
```

```
# memtest.sh
```

```
#
```

```
# Shell script to help isolate memory failures under linux
```

```
#
```

```
# Author: Doug Ledford + contributors
```

```
#
```

```
# (C) Copyright 2000–2002 Doug Ledford; Red Hat, Inc.
```

```
# This shell script is released under the terms of the GNU General
```

```
# Public License Version 2, June 1991. If you do not have a copy
```

```
# of the GNU General Public License Version 2, then one may be
```

```
# retrieved from
```