

## index: kernel/git/torvalds/linux.git

master 🗸 switch

Linux kernel source tree

Linus Torvalds

about summary refs log tree commit diff stats log msg ▼ search

 author
 Jan Kara <jack@suse.cz>
 2022-01-17 18:22:13 +0100

 committer
 Jan Kara <jack@suse.cz>
 2022-01-24 14:45:02 +0100

 commit
 7fc3b7c2981bbd1047916ade327beccb90994eee (patch)

**commit** 7fc3b7c2981bbd1047916ade327beccb90994eee (pa **tree** 410cae0a02add6911b15af81d8472738e50d0d8b

download linux-7fc3b7c2981bbd1047916ade327beccb90994eee.tar.gz

## context: 3 v space: include v mode: unified v

## udf: Fix NULL ptr deref when converting from inline format

udf\_expand\_file\_adinicb() calls directly ->writepage to write data expanded into a page. This however misses to setup inode for writeback properly and so we can crash on inode->i\_wb dereference when submitting page for IO like:

```
BUG: kernel NULL pointer dereference, address: 00000000000000158

#PF: supervisor read access in kernel mode

...

<TASK>
__folio_start_writeback+0x2ac/0x350
__block_write_full_page+0x37d/0x490
udf_expand_file_adinicb+0x255/0x400 [udf]
udf_file_write_iter+0xbe/0x1b0 [udf]
new_sync_write+0x125/0x1c0
vfs_write+0x28e/0x400
```

Fix the problem by marking the page dirty and going through the standard writeback path to write the page. Strictly speaking we would not even have to write the page but we want to catch e.g. ENOSPC errors early.

```
Reported-by: butt3rflyh4ck <butterflyhuangxx@gmail.com>
CC: stable@vger.kernel.org
Fixes: 52ebea749aae ("writeback: make backing_dev_info host cgroup-specific bdi_writebacks")
Reviewed-by: Christoph Hellwig <hch@lst.de>
Signed-off-by: Jan Kara <jack@suse.cz>
```

## **Diffstat**

```
-rw-r--r-- fs/udf/inode.c 8
```

1 files changed, 3 insertions, 5 deletions