Subject: Re: [PATCH 2.6.19-rc3] VFS: per-sb dentry Iru list Posted by Eric Dumazet on Mon, 30 Oct 2006 16:09:31 GMT

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On Monday 30 October 2006 16:34, Kirill Korotaev wrote:

- > > Quick search maybe, but your patch adds 2 pointers to each dentry in the
- > > system... That's pretty expensive, as dentries are already using a \*lot\*
- > > of ram.

>

- > I don't see much problems with it... it is cache and it can be pruned if
- > needed. Some time ago, for example, my patch introducing the same list for
- > inodes was committed.

The ratio of dentries/PAGE is higher than ration of inodes/PAGE. (On a x86\_64 machine, 19 dentries per PAGE, 5 ext3 inodes per PAGE=

Therefore I suspect that the number of pages locked in dentry\_cache because of one inuse dentry is higher.

>

- > > Maybe an alternative would be to not have anymore a global dentry\_unused,
- > > but only per-sb unused dentries lists?

>

- > I don't know global LRU implementation based on per-sb lists, do you?
- > If someone suggest the algorithm for more or less fair global LRU
- > based on non-global list we will implement it. However, so far,
- > AFAICS there were problems with it.

Using 32 bytes per dentry for unused LRUs sounds too much, maybe we should revert LRUS handling to timestamps or things like that.