

Re: [patch][rfc] rewrite ramdisk

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-10/msg05197.html>

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 - *Date:* Tue, 16 Oct 2007 03:08:46 -0600
-

Well on that same tune. But with a slightly different implementation. It compiles but I need to head to bed so I haven't had a chance to test it yet.

Nick it is very similar to yours with the big difference being that I embedded a struct `address_space` instead of rolled rerolled it by hand, which saves a lot of lines of code.

Eric

```
-----
drivers/block/rd.c
/*
 * ramdisk.c - Multiple RAM disk driver - gzip-loading version - v. 0.8 beta.
 *
 * (C) Chad Page, Theodore Ts'o, et. al, 1995.
 *
 * This RAM disk is designed to have filesystems created on it and mounted
 * just like a regular floppy disk.
 *
 * It also does something suggested by Linus: use the buffer cache as the
 * RAM disk data. This makes it possible to dynamically allocate the RAM disk
 * buffer - with some consequences I have to deal with as I write this.
 *
 * This code is based on the original ramdisk.c, written mostly by
 * Theodore Ts'o (TYT) in 1991. The code was largely rewritten by
 * Chad Page to use the buffer cache to store the RAM disk data in
 * 1995; Theodore then took over the driver again, and cleaned it up
 * for inclusion in the mainline kernel.
 *
 * The original CRAMDISK code was written by Richard Lyons, and
 * adapted by Chad Page to use the new RAM disk interface. Theodore
 * Ts'o rewrote it so that both the compressed RAM disk loader and the
 * kernel decompressor uses the same inflate.c codebase. The RAM disk
 * loader now also loads into a dynamic (buffer cache based) RAM disk,
 * not the old static RAM disk. Support for the old static RAM disk has
 * been completely removed.
 *

```

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- * Loadable module support added by Tom Dyas.
- *
- * Further cleanups by Chad Page (page0588@xxxxxxxxxxxxxxxxxxxx):
- * Cosmetic changes in #ifdef MODULE, code movement, etc.
- * When the RAM disk module is removed, free the protected buffers
- * Default RAM disk size changed to 2.88 MB
- *
- * Added initrd: Werner Almesberger & Hans Lermen, Feb '96
- *
- * 4/25/96 : Made RAM disk size a parameter (default is now 4 MB)
- * – Chad Page
- *
- * Add support for fs images split across >1 disk, Paul Gortmaker, Mar '98
- *
- * Make block size and block size shift for RAM disks a global macro
- * and set blk_size for –ENOSPC, Werner Fink <werner@xxxxxxx>, Apr '99
- */

```
#include <linux/string.h>  
#include <lin
```