

## enhancement to mdmfs

**Source:** <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2004-11/1716.html>

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**Date:** 11/30/04

Date: Tue, 30 Nov 2004 12:21:35 +0100  
To: freebsd-current@freebsd.org

Hello,

I've recently shot my foot with mdmfs. Of course it was a pilot error but the funcioanility I was looking for might be usefull.

I want to mount vnode-backed md(4) on boot without formatting it (e.g. for a jail). Is it possible with current boot scripts?

I wrote a simple patch to mdmfs so such md disk can be put in /etc/fstab. It adds '-K' option do mdmfs(8) to Keep contents. The line to attach such disk in fstab looks like this:

```
md /jail mfs rw,-K,-F=/var/jailfile 0 0
```

Comments welcome. If people find it usefull I'd like to have it committed. I can fill the PR with enhancement request.

Patch attached.

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Michal Mertl

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```
RCS file: /home/fcvs/cvs/src/sbin/mdmfs/mdmfs.8,v
retrieving revision 1.20
diff -u -3 -r1.20 mdmfs.8
--- mdmfs.8 17 May 2004 08:35:41 -0000 1.20
+++ mdmfs.8 30 Nov 2004 10:56:22 -0000
@@ -36,7 +36,7 @@
driver
.Sh SYNOPSIS
.Nm
-.Op Fl DLIMNSUX
+.Op Fl DKLIMNSUX
.Op Fl a Ar maxcontig
```

```
.Op Fl b Ar block-size
.Op Fl c Ar cylinders
@@ -57,7 +57,7 @@
.Ar mount-point
.Nm
.Fl C
-.Op Fl INU
+.Op Fl KINU
.Op Fl a Ar maxcontig
.Op Fl b Ar block-size
.Op Fl c Ar cylinders
@@ -162,6 +162,12 @@
The fragment size of the file system in bytes.
.It Fl i Ar bytes
Number of bytes per inode.
+.It Fl K
+Preserve contents of vnode-backed
+.Pq Dv MD_VNODE
+memory disk.
+Must be used in conjunction with
+.Fl F .
.It Fl l
Enable multilabel MAC on the new file system.
.It Fl L
Index: mdmfs.c
```

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```
RCS file: /home/fcvs/cvs/src/sbin/mdmfs/mdmfs.c,v
retrieving revision 1.20
diff -u -3 -r1.20 mdmfs.c
--- mdmfs.c 17 May 2004 07:07:20 -0000 1.20
+++ mdmfs.c 30 Nov 2004 10:51:56 -0000
@@ -89,7 +89,7 @@
     *mount_arg;
     enum md_types mdtype; /* The type of our memory disk. */
     bool have_mdtype;
- bool detach, softdep, autounit;
+ bool detach, softdep, autounit, keepdata;
     char *mtpoint, *unitstr;
     char *p;
     int ch;
@@ -119,7 +119,7 @@
     compat = true;

     while ((ch = getopt(argc, argv,
- "a:b:Cc:Dd:e:F:f:hi:LI Mm:Nn:O:o:p:Ss:t:Uv:w:X")) != -1)
+ "a:b:Cc:Dd:e:F:f:hi:KLIMm:Nn:O:o:p:Ss:t:Uv:w:X")) != -1)
         switch (ch) {
             case 'a':
                 argappend(&newfs_arg, "-a %s", optarg);
@@ -167,6 +167,8 @@
         usage();
```

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```

        loudsubs = true;
        break;
+ case 'K':
+ keepdata = true;
        case 'l':
            argappend(&newfs_arg, "-l");
            break;
@@ -233,7 +235,6 @@
        argv += optind;
        if (argc < 2)
            usage();
-
        /* Make compatibility assumptions. */
        if (compat) {
            mi.mi_mode = 01777;
@@ -258,6 +259,11 @@
            mtpoint = argv[1];
            if (!have_mdtype)
                mdtype = MD_SWAP;
+
+ /* If we want to use vnode backed file and don't newfs it */
+ if (keepdata && mdtype != MD_VNODE)
+ err(1, "Must specify -F with -K");
+
        if (softdep)
            argappend(&newfs_arg, "-U");

@@ -268,7 +274,8 @@
            do_mdconfig_attach_au(mdconfig_arg, mdtype);
        else
            do_mdconfig_attach(mdconfig_arg, mdtype);
- do_newfs(newfs_arg);
+ if (!keepdata)
+ do_newfs(newfs_arg);
        do_mount(mount_arg, mtpoint);
        do_mtptsetup(mtpoint, &mi);

@@ -665,13 +672,13 @@
        name = "mdmfs";
        if (!compat)
            fprintf(stderr,
- "usage: %s [-DLIMNSUX] [-a maxcontig [-b block-size] [-c cylinders]\n"
+ "usage: %s [-DKLIMNSUX] [-a maxcontig [-b block-size] [-c cylinders]\n"
            "\t[-d rotdelay] [-e maxbpg] [-F file] [-f frag-size] [-i bytes]\n"
            "\t[-m percent-free] [-n rotational-positions] [-O optimization]\n"
            "\t[-o mount-options] [-p permissions] [-s size] [-w user:group]\n"
            "\tmd-device mount-point\n", name);
            fprintf(stderr,
- "usage: %s -C [-LNU] [-a maxcontig] [-b block-size] [-c cylinders]\n"
+ "usage: %s -C [-IKNU] [-a maxcontig] [-b block-size] [-c cylinders]\n"
            "\t[-d rotdelay] [-e maxbpg] [-F file] [-f frag-size] [-i bytes]\n"

```

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```
"\t[-m percent-free] [-n rotational-positions] [-O optimization]\n"\n"\t[-o mount-options] [-s size] md-device mount-point\n", name);
```

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freebsd-current@freebsd.org mailing list

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