

new/usr/src/lib/libreparse/common/fs_reparse_lib.c

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*****
10340 Thu Jan 17 14:38:03 2019
new/usr/src/lib/libreparse/common/fs_reparse_lib.c
10106 libreparse needs smatch fixes
*****
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20 */

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27 /*
28  * Copyright (c) 2018, Joyent, Inc.
29  */

31 #include <stdio.h>
32 #include <stdlib.h>
33 #include <unistd.h>
34 #include <strings.h>
35 #include <string.h>
36 #include <dirent.h>
37 #include <sys/types.h>
38 #include <sys/stat.h>
39 #include <sys/param.h>
40 #include <sys/errno.h>
41 #include <limits.h>
42 #include <libnvpair.h>
43 #include <dlfcn.h>
44 #include <libintl.h>
45 #include <sys/systeminfo.h>
46 #include <sys/fs_reparse.h>
47 #include "rp_plugin.h"

49 #define MAXISALEN      257      /* based on sysinfo(2) man page */

51 static rp_proto_handle_t rp_proto_handle;
52 static rp_proto_plugin_t *rp_proto_list;

54 int rp_plugin_init(void);
55 static void proto_plugin_fini(void);
56 static rp_plugin_ops_t *rp_find_protocol(const char *svctype);

58 extern int errno;
59 static int rp_plugin_initd = 0;

61 /*
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62 * reparse_create()
63 *
64 * Create a symlink at the specified 'path' as a reparse point.
65 * This function will fail if path refers to an existing file system
66 * object or an object named string already exists at the given path.
67 *
68 * return 0 if ok else return error code.
69 */
70 int
71 reparse_create(const char *path, const char *data)
72 {
73     int err;
74     struct stat sbuf;

76     if (path == NULL || data == NULL)
77         return (EINVAL);

79     if ((err = reparse_validate(data)) != 0)
80         return (err);

82     /* check if object exists */
83     if (lstat(path, &sbuf) == 0)
84         return (EEXIST);

86     return (symlink(data, path) ? errno : 0);
87 }
_____ unchanged_portion_omitted

271 static void
272 proto_plugin_fini()
273 {
274     rp_proto_plugin_t *p;

276     /*
277      * Protocols may call this framework during _fini
278      */
279     for (p = rp_proto_list; p != NULL; p = p->plugin_next) {
280         if (p->plugin_ops->rpo_fini)
281             (void) p->plugin_ops->rpo_fini();
282         p->plugin_ops->rpo_fini();
283     }
284     while ((p = rp_proto_list) != NULL) {
285         rp_proto_list = p->plugin_next;
286         if (p->plugin_handle != NULL)
287             (void) dlclose(p->plugin_handle);
288         free(p);
289     }
290     if (rp_proto_handle.rp_ops != NULL) {
291         free(rp_proto_handle.rp_ops);
292         rp_proto_handle.rp_ops = NULL;
293     }
294     rp_proto_handle.rp_num_proto = 0;
295 }
_____ unchanged_portion_omitted
```