

LCOV - code coverage report

Current view: [directory](#) - [fs/ext4](#) - [xattr_security.c](#) ([source](#) / [functions](#))

Found

Test: [kernel_2_6_31_ext4_round_3.info](#)

Lines: 24

Date: 2009-10-24

Functions: 4

```
1      : /*
2      :  * linux/fs/ext4/xattr_security.c
3      :  * Handler for storing security labels as extended attributes.
4      :  */
5      :
6      : #include <linux/module.h>
7      : #include <linux/string.h>
8      : #include <linux/fs.h>
9      : #include <linux/security.h>
10     : #include "ext4_jbd2.h"
11     : #include "ext4.h"
12     : #include "xattr.h"
13     :
14     : static size_t
15     : ext4_xattr_security_list(struct inode *inode, char *list, size_t list_size,
16     :                       const char *name, size_t name_len)
17     0 : {
18     0 :     const size_t prefix_len = sizeof(XATTR_SECURITY_PREFIX) - 1;
19     0 :     const size_t total_len = prefix_len + name_len + 1;
20     :
21     :
22     0 :     if (list && total_len <= list_size) {
23     :         memcpy(list, XATTR_SECURITY_PREFIX, prefix_len);
24     0 :         memcpy(list + prefix_len, name, name_len);
25     0 :         list[prefix_len + name_len] = '\0';
26     :     }
27     0 :     return total_len;
28     : }
29     :
30     : static int
31     : ext4_xattr_security_get(struct inode *inode, const char *name,
32     :                       void *buffer, size_t size)
33     0 : {
34     0 :     if (strcmp(name, "") == 0)
35     0 :         return -EINVAL;
36     0 :     return ext4_xattr_get(inode, EXT4_XATTR_INDEX_SECURITY, name,
37     :                         buffer, size);
38     : }
39     :
40     : static int
41     : ext4_xattr_security_set(struct inode *inode, const char *name,
42     :                       const void *value, size_t size, int flags)
43     0 : {
44     0 :     if (strcmp(name, "") == 0)
45     0 :         return -EINVAL;
46     0 :     return ext4_xattr_set(inode, EXT4_XATTR_INDEX_SECURITY, name,
47     :                         value, size, flags);
48     : }
49     :
50     : int
51     : ext4_init_security(handle_t *handle, struct inode *inode, struct inode *dir)
52     9312572 : {
```

```

53         :         int err;
54         :         size_t len;
55         :         void *value;
56         :         char *name;
57         :
58     9312572 :         err = security_inode_init_security(inode, dir, &name, &value, &len);
59     9312572 :         if (err) {
60     9312572 :             if (err == -EOPNOTSUPP)
61     9312572 :                 return 0;
62     0 :                 return err;
63         :         }
64     0 :         err = ext4_xattr_set_handle(handle, inode, EXT4_XATTR_INDEX_SECURITY,
65         :                                     name, value, len, 0);
66     0 :         kfree(name);
67     0 :         kfree(value);
68     0 :         return err;
69         :     }
70         :
71         : struct xattr_handler ext4_xattr_security_handler = {
72         :     .prefix = XATTR_SECURITY_PREFIX,
73         :     .list   = ext4_xattr_security_list,
74         :     .get    = ext4_xattr_security_get,
75         :     .set    = ext4_xattr_security_set,
76         : };

```

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