
Subject: patch sysfs-implement-sysfs_delete_link-and-sysfs_rename_link.patch
added to gregkh-2.6 tree

Posted by [gregkh](#) on Sat, 21 Jul 2007 06:36:23 GMT

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This is a note to let you know that I've just added the patch titled

Subject: [PATCH 3/4] sysfs: Implement sysfs_delete_link and sysfs_rename_link

to my gregkh-2.6 tree. Its filename is

sysfs-implement-sysfs_delete_link-and-sysfs_rename_link.patch

This tree can be found at

<http://www.kernel.org/pub/linux/kernel/people/gregkh/gregkh-2.6/patches/>

>From ebiederm@xmission.com Fri Jul 20 23:21:06 2007

From: ebiederm@xmission.com (Eric W. Biederman)

Date: Wed, 18 Jul 2007 22:46:39 -0600

Subject: [PATCH 3/4] sysfs: Implement sysfs_delete_link and sysfs_rename_link

To: Greg KH <greg@kroah.com>

Cc: Greg KH <gregkh@suse.de>, Dave Hansen <hansendc@us.ibm.com>, Benjamin Thery
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When removing a symlink sysfs_remove_link does not provide enough
information to figure out which shadow directory the symlink falls in.
So I need sysfs_delete_link which is passed the target of the symlink
to delete.

Further half the time when we are removing a symlink the code is
actually renaming the symlink but not doing so explicitly because we
don't have a symlink rename method. So I have added sysfs_rename_link
as well.

Both of these functions now have enough information to find a symlink
in a shadow directory. The only restriction is that they must be
called before the target kobject is renamed or deleted. If they are
called later I loose track of which tag the target kobject was marked
with and can no longer find the old symlink to remove it.

Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>

Cc: Tejun Heo <htejun@gmail.com>

Signed-off-by: Greg Kroah-Hartman <gregkh@suse.de>

```
---
fs/sysfs/symlink.c | 31 ++++++
include/linux/sysfs.h | 18 ++++++
2 files changed, 49 insertions(+)
```

```
--- a/fs/sysfs/symlink.c
+++ b/fs/sysfs/symlink.c
@@ -126,6 +126,21 @@ addrm_finish:
```

```
/**
 * sysfs_delete_link - remove symlink in object's directory.
 * @kobj: object we're acting for.
 * @targ: object we're pointing to.
 * @name: name of the symlink to remove.
 *
 * Unlike sysfs_remove_link sysfs_delete_link has enough information
 * to successfully delete symlinks in shadow directories.
 */
+void sysfs_delete_link(struct kobject *kobj, struct kobject *targ,
+ const char *name)
+{
+ sysfs_hash_and_remove(targ, kobj->sd, name);
+}
+
+/**
 * sysfs_remove_link - remove symlink in object's directory.
 * @kobj: object we're acting for.
 * @name: name of the symlink to remove.
@@ -136,6 +151,22 @@ void sysfs_remove_link(struct kobject *
 sysfs_hash_and_remove(kobj, kobj->sd, name);
 }

+/**
 * sysfs_rename_link - rename symlink in object's directory.
 * @kobj: object we're acting for.
 * @targ: object we're pointing to.
 * @old: previous name of the symlink.
 * @new: new name of the symlink.
 *
 * A helper function for the common rename symlink idiom.
 */
+int sysfs_rename_link(struct kobject *kobj, struct kobject *targ,
+ const char *old, const char *new)
+{
+ sysfs_delete_link(kobj, targ, old);
+ return sysfs_create_link(kobj, targ, new);
+}
```

```

+}
+
static int sysfs_get_target_path(struct sysfs_dirent * parent_sd,
    struct sysfs_dirent * target_sd, char *path)
{
--- a/include/linux/sysfs.h
+++ b/include/linux/sysfs.h
@@ -127,6 +127,13 @@ sysfs_create_link(struct kobject * kobj,
extern void
sysfs_remove_link(struct kobject *, const char * name);

+extern int
+sysfs_rename_link(struct kobject *kobj, struct kobject *target,
+ const char *old_name, const char *new_name);
+
+extern void
+sysfs_delete_link(struct kobject *dir, struct kobject *targ, const char *name);
+
int __must_check sysfs_create_bin_file(struct kobject *kobj,
    struct bin_attribute *attr);
void sysfs_remove_bin_file(struct kobject *kobj, struct bin_attribute *attr);
@@ -202,6 +209,17 @@ static inline void sysfs_remove_link(str
;
}

+static inline int
+sysfs_rename_link(struct kobject * k, struct kobject *t,
+ const char *old_name, const char * new_name)
+{
+ return 0;
+}
+
+static inline void
+sysfs_delete_link(struct kobject *k, struct kobject *t, const char *name)
+{
+}

static inline int sysfs_create_bin_file(struct kobject * k, struct bin_attribute * a)
{

```

Patches currently in gregkh-2.6 which might be from greg@kroah.com are

```

bad/pci-domain/pci-device-ensure-sysdata-initialised.patch
bad/pci-domain/pci-fix-the-x86-pci-domain-support-fix.patch
bad/relayfs/sysfs-update-relay-file-support-for-generic-relay-api.patch
bad/relayfs/relay-consolidate-relayfs-core-into-kernel-relay.c.patch
bad/relayfs/relay-relay-header-cleanup.patch

```

bad/relayfs/relayfs-remove-relayfs-in-favour-of-config_relay.patch
bad/relayfs/sysfs-add-__attr_relay-helper-for-relay-attributes.patch
bad/relayfs/sysfs-relay-channel-buffers-as-sysfs-attributes.patch
bad/usbip/usb-usbip-more-dead-code-fix.patch
bad/usbip/usb-usbip-build-fix.patch
bad/usbip/usb-usbip-warning-fixes.patch
bad/ndevfs.patch
bad/battery-class-driver.patch
bad/driver-model-convert-driver-model-to-mutexes.patch
bad/gpl_future-test.patch
bad/gregkh-debugfs_example.patch
bad/speakup-kconfig-fix.patch
bad/speakup-build-fix.patch
bad/pci-use-new-multi-phase-suspend-infrastructure.patch
bad/shot-across-the-bow.patch
bad/no-more-non-gpl-modules.patch
bad/spi-device.patch
bad/ata_piix-multithread.patch
bad/uiio-irq.patch
bad/pci-two-drivers-on-one-pci-device.patch
bad/pci-dynamic-id-cleanup.patch
bad/input-device.patch
bad/usb-stimulus.patch
driver/nozomi.patch
driver/kobject-put-kobject_actions-in-kobject.h.patch
driver/sysfs-implement-sysfs-manged-shadow-directory-support.patch
driver/sysfs-implement-sysfs_delete_link-and-sysfs_rename_link.patch
driver/sysfs-remove-first-pass-at-shadow-directory-support.patch
driver/driver-core-implement-shadow-directory-support-for-device-classes.patch
gregkh/gkh-version.patch
gregkh/sysfs-test.patch
gregkh/sysrq-u-laptop.patch
pci/pci_bridge-device.patch
pci/pci-piggy-bus.patch
pci/pci-move-prototypes-for-pci_bus_find_capability-to-include-linux-pci.h.patch
pci/pci-document-pci_iomap.patch
usb/usb-gotemp.patch
usb/kobject-put-kobject_actions-in-kobject.h.patch
usb/usb-add-the-concept-of-default-authorization-to-usb-hosts.patch
usb/usb-cleanup-usb_register_bus-and-hook-up-sysfs-group.patch
usb/usb-initialize-authorization-and-wusb-bits-in-usb-devices.patch
usb/usb-introduce-usb_device-authorization-bits.patch
usb/usb-usb_set_configuration-obey-authorization.patch
usb/usb-usb.h-kernel-doc-additions.patch
HOWTO

Containers mailing list
Containers@lists.linux-foundation.org

