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#include nux/module.h>
#include nux/firmware.h>
#include <asm/unaligned.h>
                        #include <net/bluetooth/bluetooth.h>
#include <net/bluetooth/hci_core.h>
                        #include "btbcm.h"
                        #define VERSION "0.1"
                        #define BDADDR_BCM20702A0 (&{bdaddr_t) {{0x00, 0xa0, 0x02, 0x70, 0x20, 0x00}}}}
#define BDADDR_BCM4324B3 {&{bdaddr_t) {{0x00, 0x00, 0x00, 0xb3, 0x24, 0x43}}}}
#define BDADDR_BCM4330B1 {&{bdaddr_t) {{0x00, 0x00, 0x00, 0xb1, 0x30, 0x43}}}
                                                      int btbcm_check_bdaddr(struct hci_dev *hdev)
                                      struct hoi rp read_pd_addr *bda;
struct sk_buff *skb;
                                      skb = _hci_cmd_sync(hdev, HCI_OP_READ_BD_ADDR, 0, NULL, HCI_INIT_TIMEOUT);
                                                                if (IS_ERR(skb)) {
                                                                                         int err = FYR_ERR(skb);
bt_dev_err(hdev, "BCM: Reading device address failed (%d)", err);
                                                                                                                                                 return err;
bda = (struct hci_rp_read_bd_addr *)skb->data;
                                                   if (!bacmp(&bda->bdaddr, BDADDR_BCM20702A0) ||
!bacmp(&bda->bdaddr, BDADDR_BCM4324B3) ||
!bacmp(&bda->bdaddr, BDADDR_BCM4330B1)) {
                                                                                                 bt_dev_info(hdev, "BCM: Using default device address (%pMR)",
                                                                                                 &bda->bdaddr);
set_bit(HCI_QUIRK_INVALID_BDADDR, &bdev->quirks);
                                                                                                                                   kfree_skb(skb);
                                                                                                                                         return 0;
                                                 EXPORT_SYMBOL_GPL(btbcm_check_bdaddr);
                                   int btbcm_set_bdaddr(struct hci_dev *hdev, const bdaddr_t *bdaddr)
                                   struct sk_buff *skb;
                                   skb = _hci_cmd_sync(hdev, 0xfc01, 6, bdaddr, HCI_INIT_TIMEOUT);
                                                               if (IS_ERR(skb)) {
                                                                                            err = PTR_ERR(SkD);
bt_dev_err(hdev, "BCM: Change address command failed (%d)", err);
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skb = \_hci\_cmd\_sync(hdev, HCl\_OP\_RESET, 0, NULL, HCl\_INIT\_TIMEOUT); if (IS\_ERR(skb)) int err = F.R\_ERR(skb); bt\_dev\_err(hdev, "BCM: Reset failed (%d)", err); return err: kfree\_skb(skb); msleep(lUU); return 0; static struct sk\_buff \*btbcm\_read\_local\_name(struct hci\_dev \*hdev struct sk\_buff \*skb; skb = \_\_hci\_cmd\_sync(hdev, HCI\_OP\_READ\_LOCAL\_NAME, 0, NULL, HCI\_INIT\_TIMEOUT); if (IS\_ERR(skb)) { if (skb->len != sizeof(struct hci\_rp\_read\_local\_name)) { bt\_dev\_err(hdev, "BCM: Local name length mismatch"); kfree\_skb(skb); return ERR\_PTR(-210); return skb; static struct sk\_buff \*btbcm\_read\_local\_version(struct hci\_dev \*hdev) struct sk\_buff \*skb; skb = \_\_hci\_cmd\_sync(hdev, HCI\_OP\_READ\_LOCAL\_VERSION, 0, NULL, HCI\_INIT\_TIMEOUT) if (IS\_ERR(skb)) { return skb; if (skb->len != sizeof(struct hci\_rp\_read\_local\_version)) ( bt\_dev\_erk(hdev, "BCM: Local version length mismatch");
kfree\_skb(skb);
return ERR\_PTR(-EIO); return skb; static struct sk\_buff \*btbcm\_read\_verbose\_config(struct hci\_dev \*hdev) struct sk\_buff \*skb; skb = \_hci\_cmd\_sync(hdev, Oxfc79, 0, NULL, HCI\_INIT\_TIMEOUT); if (IS\_ERR(skb)) (

