## file: uapi/v4l/keytable.c

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/* keytable.c - This program allows checking/replacing keys at IR
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  GNU General Public License for more details.
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <linux/input.h>
#include <sys/ioctl.h>
#include "parse.h"
void prtcode (int *codes)
         struct parse_key *p;
         for (p=keynames;p->name!=NULL;p++) {
                 if (p->value == (unsigned) codes[1]) {
                          printf("scancode 0x\%04x = %s (0x\%02x)\n", codes[0], p->name, codes[1]);
                          return;
                  }
         if (isprint (codes[1]))
                  printf("scancode %d = '%c' (0x\%02x)\n", codes[0], codes[1], codes[1]);
                  printf("scancode %d = 0x\%02x\n", codes[0], codes[1]);
int parse_code(char *string)
         struct parse_key *p;
         for (p=keynames;p->name!=NULL;p++) {
                 if (!strcasecmp(p->name, string)) {
                         return p->value;
        return -1;
int main (int argc, char *argv[])
        unsigned int i, j;
        int codes[2];
         if (argc<2 || argc>4) {
                 printf ("usage: %s <device> to get table; or\\n"
                                %s <device> <scancode> <keycode>\\n"
                                   %s <device> <keycode file>n", *argv, *argv, *argv);
                 return -1;
        if ((fd = open(argv[1], O_RDONLY)) < 0) {
    perror("Couldn't open input device");</pre>
                  return (-1);
         if (argc==4) {
                  value=parse_code(argv[3]);
                  if (value==-1) {
                           value = strtol(argv[3], NULL, 0);
                          if (errno)
                                  perror("value");
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codes [0] = (unsigned) strtol(argv[2], NULL, 0);
        codes [1] = (unsigned) value;
        if(ioctl(fd, EVIOCSKEYCODE, codes))
                 perror ("EVIOCSKEYCODE");
        if(ioctl(fd, EVIOCGKEYCODE, codes) == 0)
                prtcode (codes);
        return 0;
if (argc==3) {
        FILE *fin;
        int value;
        char *scancode, *keycode, s[2048];
        fin=fopen(argv[2],"r");
        if (fin==NULL)
                perror ("opening keycode file");
                 return -1;
        /* Clears old table */
        for (j = 0; j < 256; j++) {
    for (i = 0; i < 256; i++) {
                         codes[0] = (j << 8) | i;
codes[1] = KEY_RESERVED;
                         ioctl(fd, EVIOCSKEYCODE, codes);
        while (fgets(s, sizeof(s), fin)) {
                 scancode=strtok(s,"\n\t =:");
                 if (!scancode)
                         perror ("parsing input file scancode");
                         return -1;
                 if (!strcasecmp(scancode, "scancode")) {
                          scancode = strtok(NULL,"\\n\\t =:");
                          if (!scancode) {
                                  perror ("parsing input file scancode");
                                  return -1;
                          }
                 keycode=strtok(NULL,"\\n\\t =: (");
                 if (!keycode) {
                         perror ("parsing input file keycode");
                         return -1;
                 }
                 // printf ("parsing %s=%s:", scancode, keycode);
                 value=parse_code(keycode);
// printf ("\\tvalue=%d\\n",value);
                 if (value==-1) {
                         value = strtol(keycode, NULL, 0);
                         if (errno)
                                  perror("value");
                 codes [0] = (unsigned) strtol(scancode, NULL, 0);
                 codes [1] = (unsigned) value;
                 // printf("\\t%04x=%04x\\n",codes[0], codes[1]);
                 if(ioctl(fd, EVIOCSKEYCODE, codes)) {
                         fprintf(stderr, "Setting scancode 0x%04x with 0x%04x via ",codes[0], codes[
                         perror ("EVIOCSKEYCODE");
                 if(ioctl(fd, EVIOCGKEYCODE, codes) == 0)
                         prtcode (codes);
        return 0;
/* Get scancode table */
for (j = 0; j < 256; j++) {
        for (i = 0; i < 256; i++) {
                 codes[0] = (j << 8) | i;
if (!ioctl(fd, EVIOCGKEYCODE, codes) && codes[1] != KEY_RESERVED)</pre>
                         prtcode (codes);
return 0;
```

