```
source "pi/critclUtils.tcl"
set cc [c create]
if {[info hostname] != "scoriae.local"} {
    $cc cflags -I$::env(HOME)/apriltag -Wall -Werror $
} else {
    $cc cflags -I/Users/osnr/aux/apriltag -Wall -Werro
}
                                                        70 (Sun, 04 Dec 2022, 09:07:02 pm)
$cc code {
    #include <apriltag.h>
    #include <tagStandard52h13.h>
    apriltag_family_t *tf = NULL;
    #define emit(...) i += sprintf(&ret[i], __VA_ARGS__)
$cc proc tagImageForId {int id} char* {
    if (tf == NULL) tf = tagStandard52h13_create();
    image_u8_t* image = apriltag_to_image(tf, id);
    char* ret = Tcl_Alloc(10000);
    int i = 0;
    emit("gsave\n");
    emit("0 1 translate\n");
    emit("%f %f scale\n", 1.0/image->width, -1.0/image->height);
    for (int row = 0; row < image->height; row++) {
        for (int col = 0; col < image->width; col++) {
            uint8_t pixel = image->buf[(row * image->stride) + col];
            emit("%d setgray ", pixel != 0);
            emit("newpath ");
            emit("%d %d moveto ", col, row); // bottom-left
            emit("%d %d lineto ", col + 1, row); // bottom-right
            emit("%d %d lineto ", col + 1, row + 1); // top-right
            emit("%d %d lineto ", col, row + 1); // top-left
            emit("closepath fill ");
        emit("\n");
    emit("grestore\n");
    ret[i++] = ' \setminus 0';
```

image u8 destroy(image);

libap

iltaq