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EAGLE Scripting

Die folgende Präsentation gibt Ihnen einen Überblick der Themen zu EAGLE.

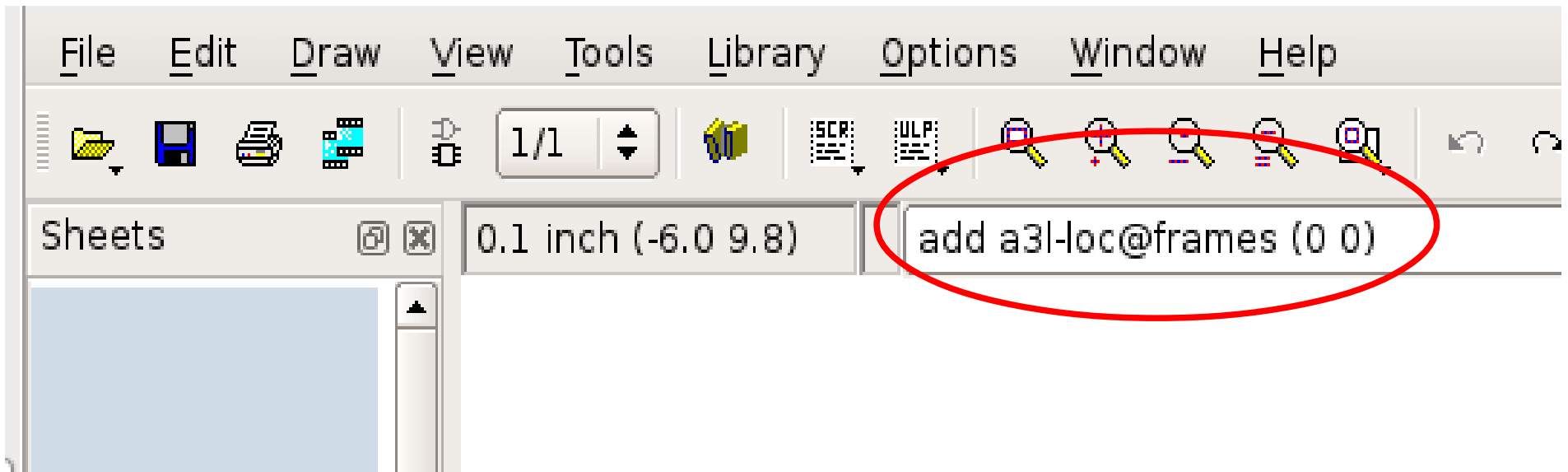
Zu Buchung und Preisen erfahren Sie hier mehr:

http://www.blunk-electronic.de/pdf/Inhalt_EAGLE_Kurse_Mario_Blunk.pdf

Skripte ?

1. Komfortable EAGLE-Bedienung
2. **Zeitersparnis**
3. Routinejobs (CAM-Datengenerierung)
4. Fehlersicherheit
5. Basieren auf Kommandozeile
6. Lineare Abarbeitung

Kommandozeile #1



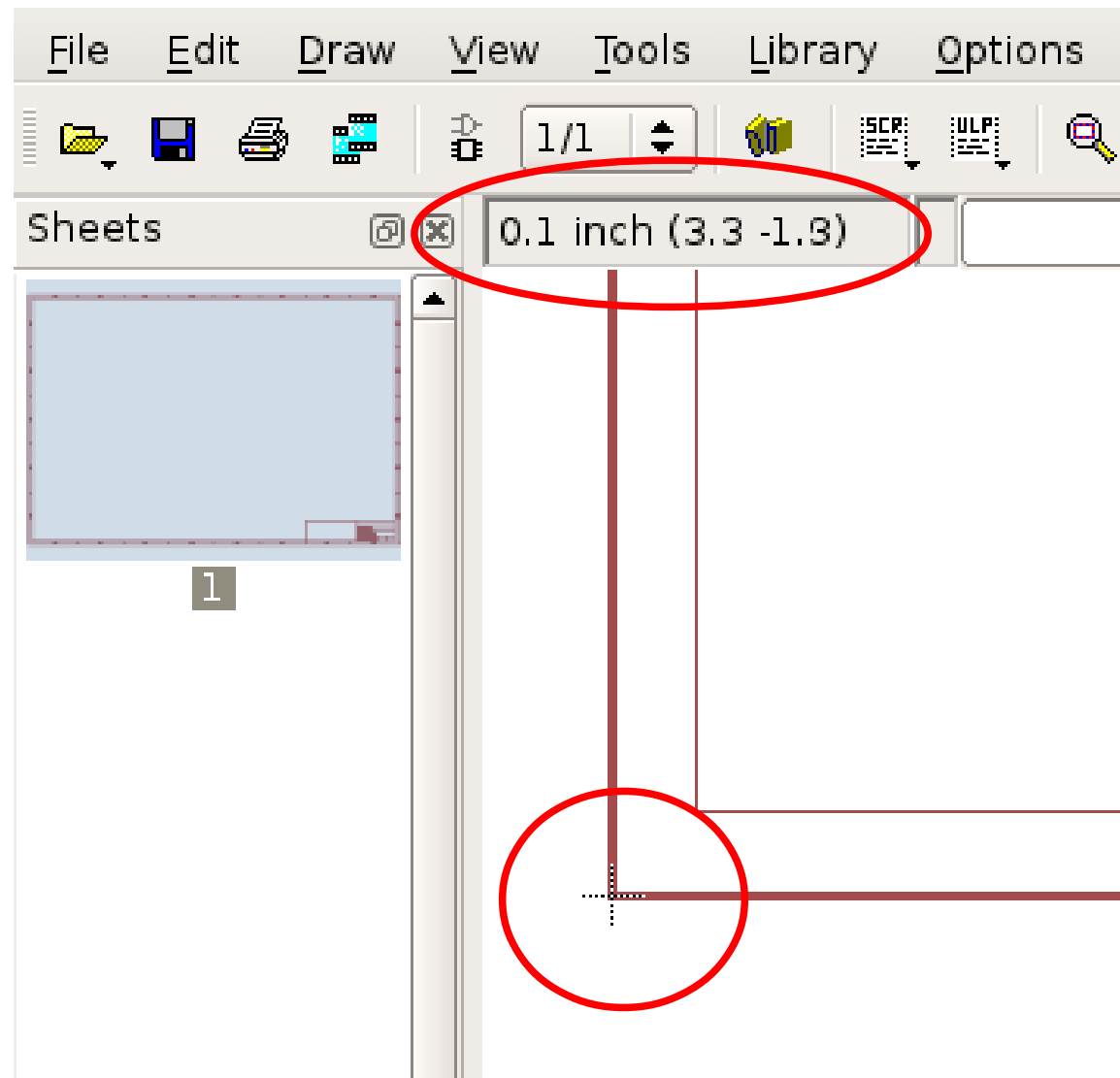
```
add *@/home/luno/eagle/lbr/abc.lbr;  
add a3l-loc@frames (0 0);
```

Device

LBR

Position

Kommandozeile #2



Kommandozeile #3

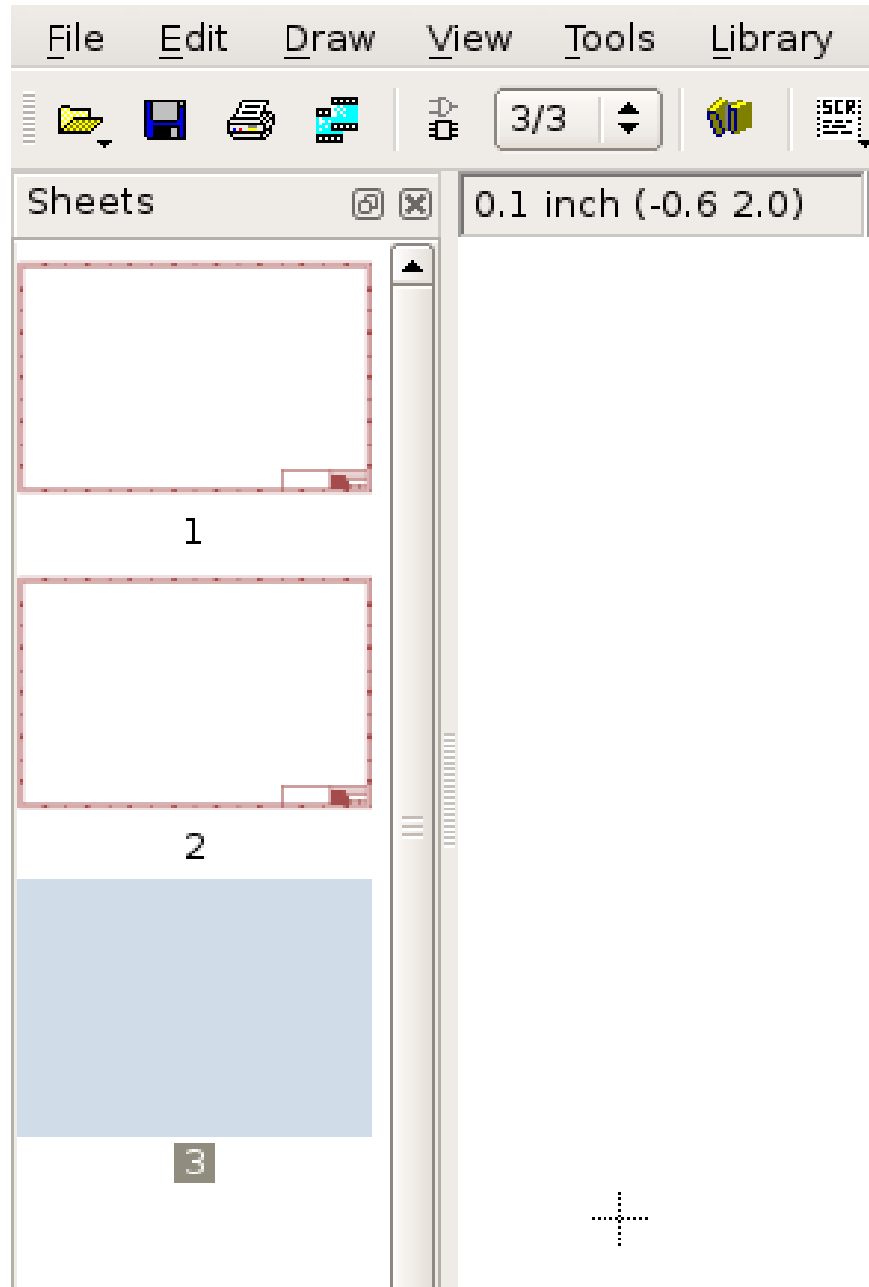
Seite bearbeiten : **edit .s2**

neue Seite : **edit .s1000**

Zeichnungsrahmen einfügen:

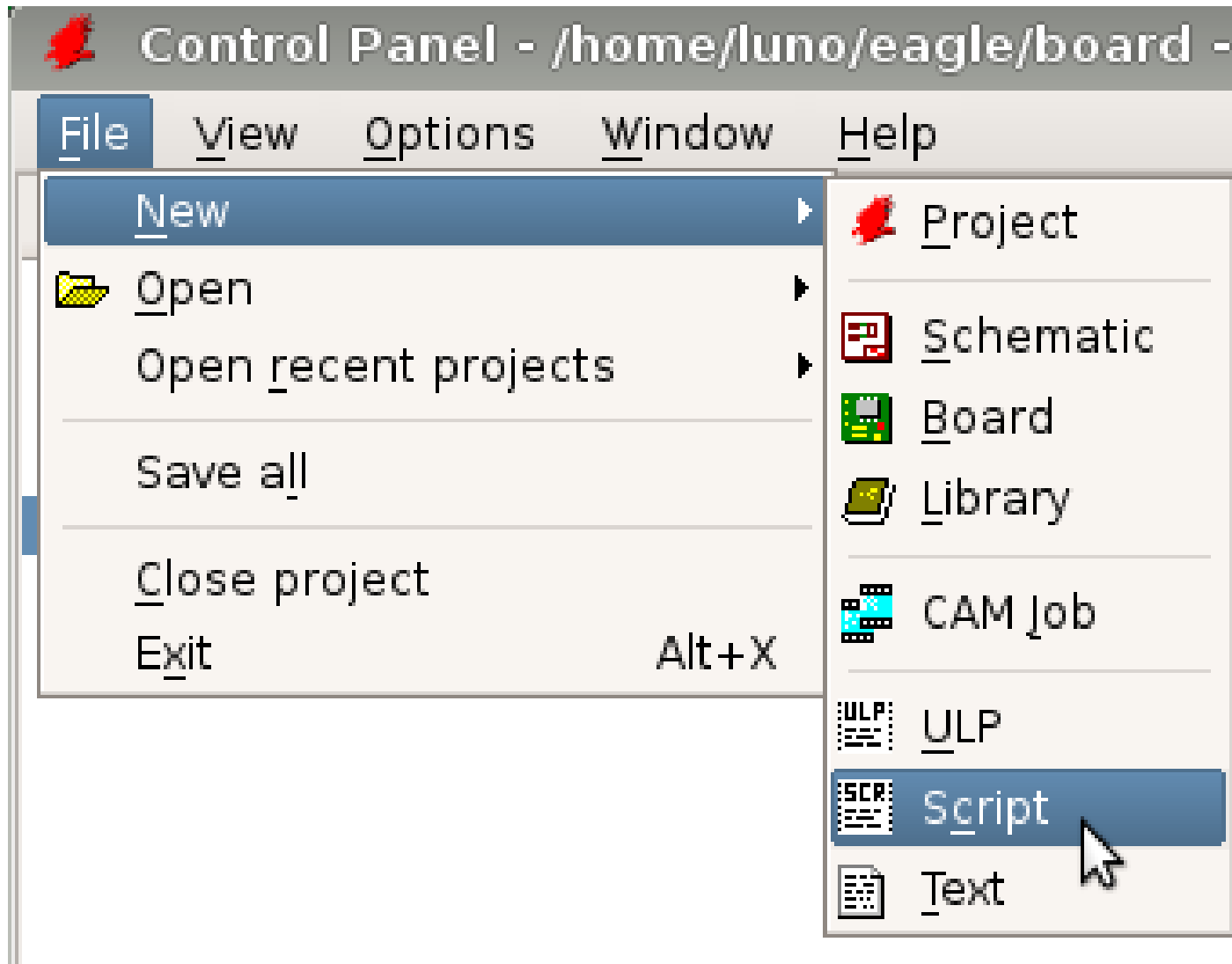
add a3l-loc@frames (0 0);

Kommandozeile #4

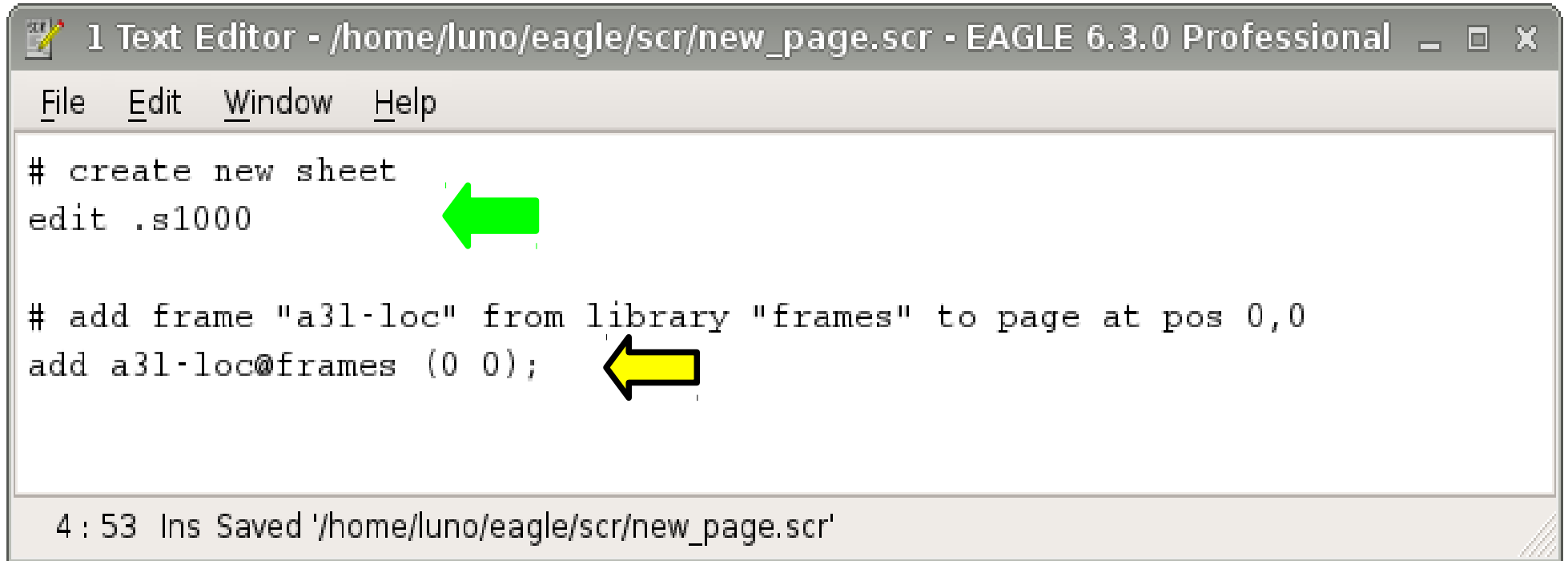


Seite löschen : **remove .s2**

Neues Script



Beispiel 1: Schaltplanseiten



The screenshot shows a text editor window titled "1 Text Editor - /home/luno/eagle/scr/new_page.scr - EAGLE 6.3.0 Professional". The window has a menu bar with "File", "Edit", "Window", and "Help". The main text area contains the following code:

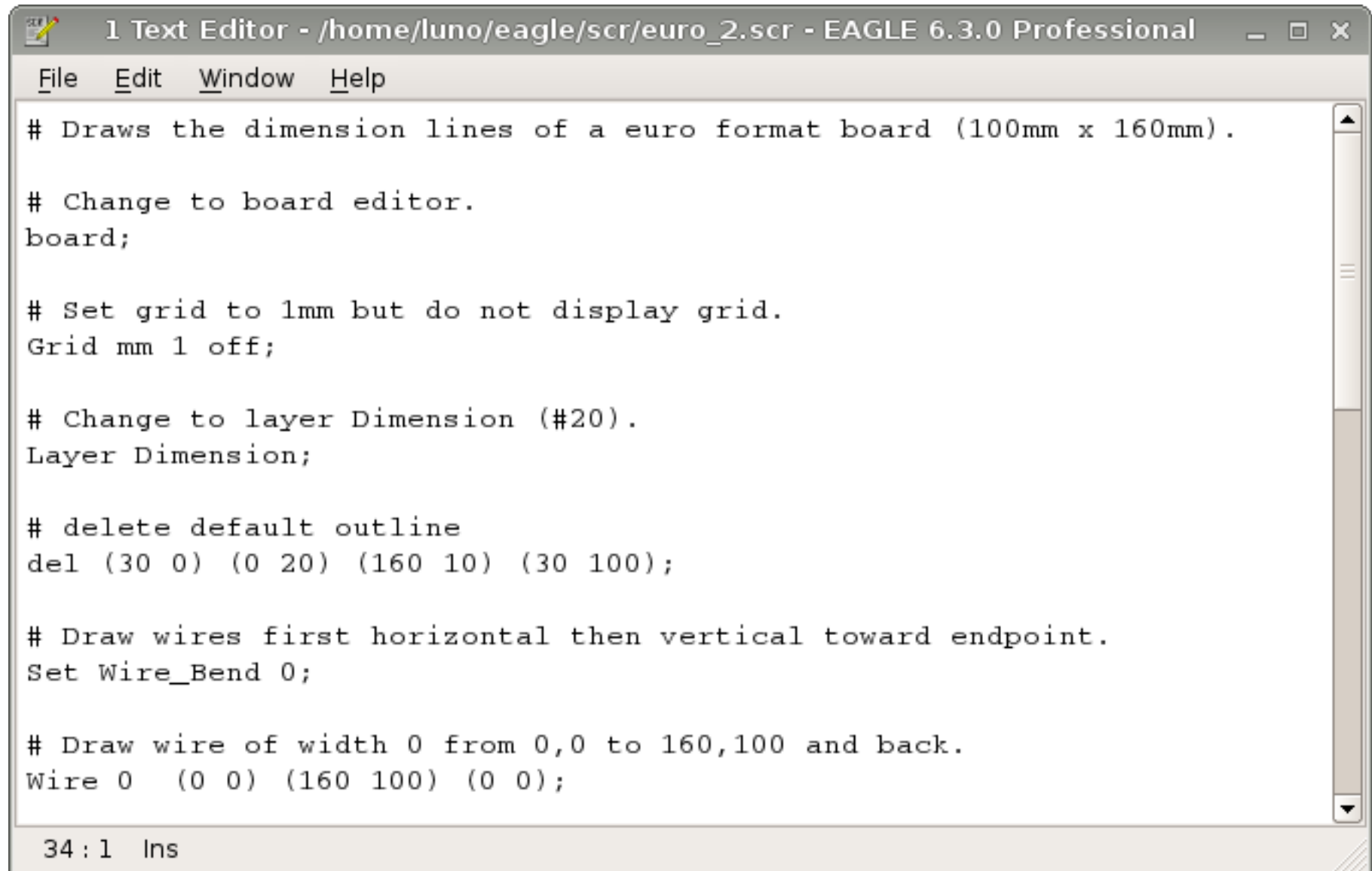
```
# create new sheet
edit .s1000

# add frame "a31-loc" from library "frames" to page at pos 0,0
add a31-loc@frames (0 0);
```

A green arrow points to the "edit .s1000" line, and a yellow arrow points to the "add a31-loc@frames (0 0);" line. The status bar at the bottom shows "4 : 53 Ins Saved '/home/luno/eagle/scr/new_page.scr'".

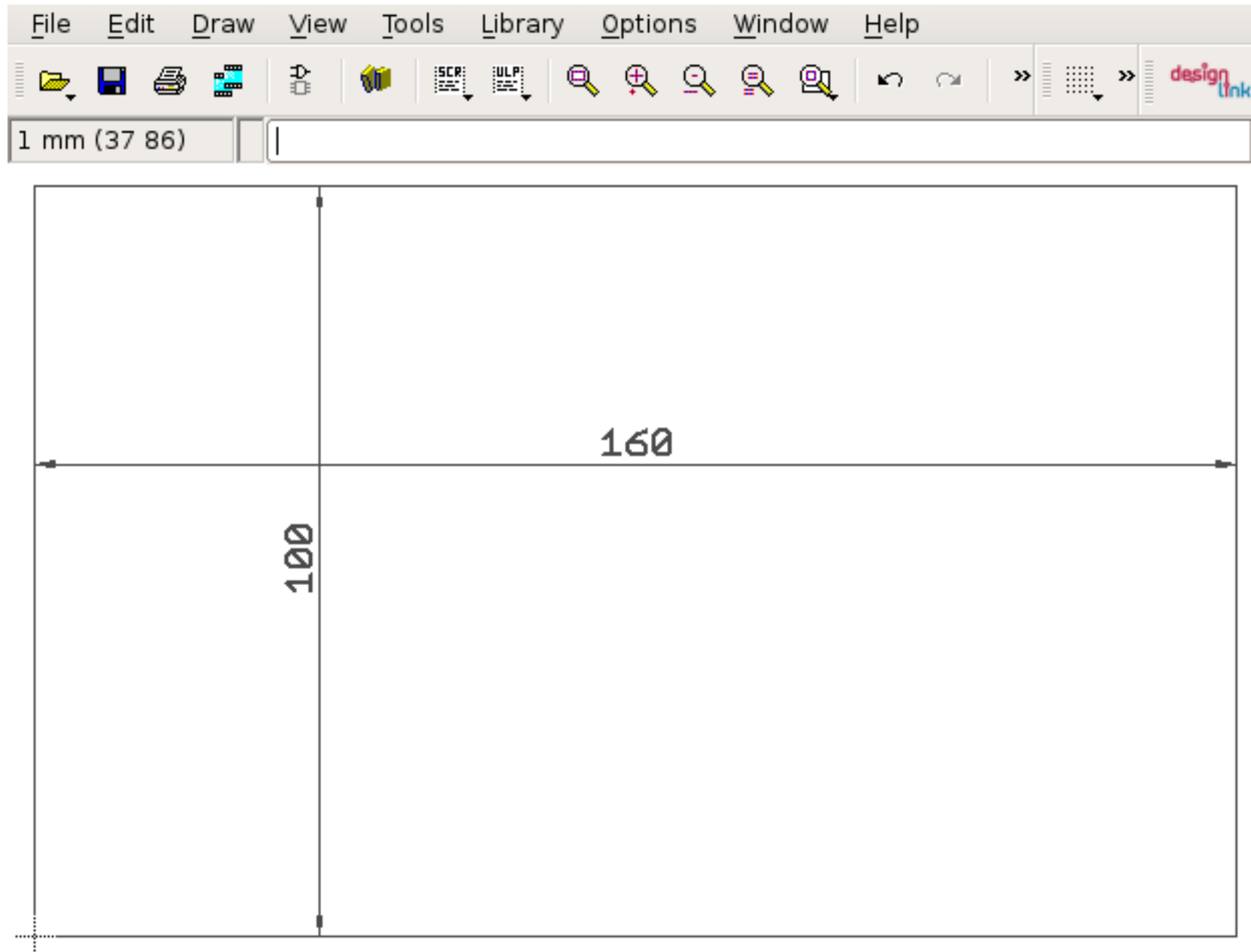
Script ausführen: [scr new_page](#)

Beispiel 2: Fräskonturen



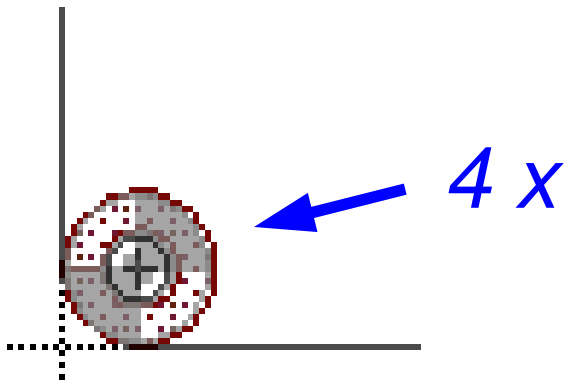
```
1 Text Editor - /home/luno/eagle/scr/euro_2.scr - EAGLE 6.3.0 Professional
File Edit Window Help
# Draws the dimension lines of a euro format board (100mm x 160mm).
# Change to board editor.
board;
# Set grid to 1mm but do not display grid.
Grid mm 1 off;
# Change to layer Dimension (#20).
Layer Dimension;
# delete default outline
del (30 0) (0 20) (160 10) (30 100);
# Draw wires first horizontal then vertical toward endpoint.
Set Wire_Bend 0;
# Draw wire of width 0 from 0,0 to 160,100 and back.
Wire 0 (0 0) (160 100) (0 0);
34:1 Ins
```

Beispiel 2: Fräskonturen



Beispiel 3: Bohrungen

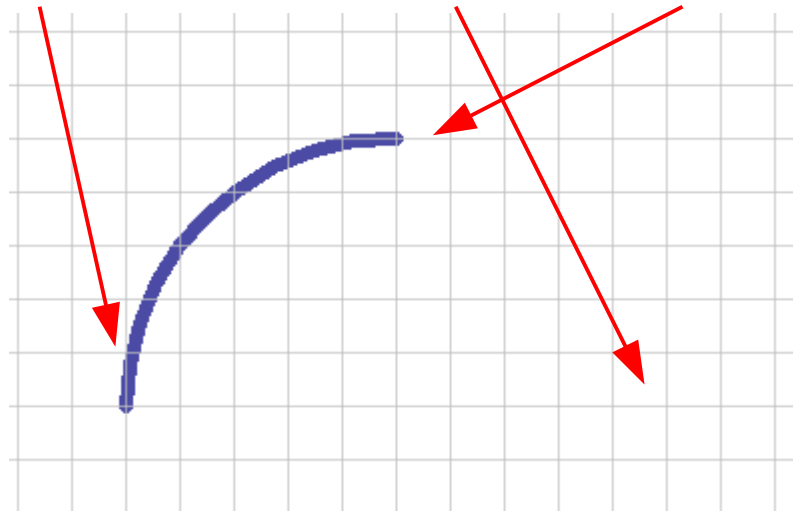
add 4,1@holes (5 5) (155 5) (155 95) (5 95);



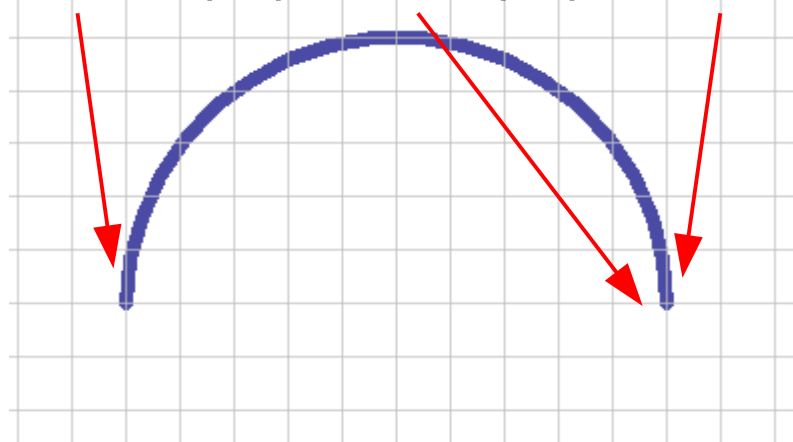
- *Passmarken*
- *NDK-Bohrungen*

Beispiel 4: Bögen

arc cw (40 30) (50 30) (45 35);

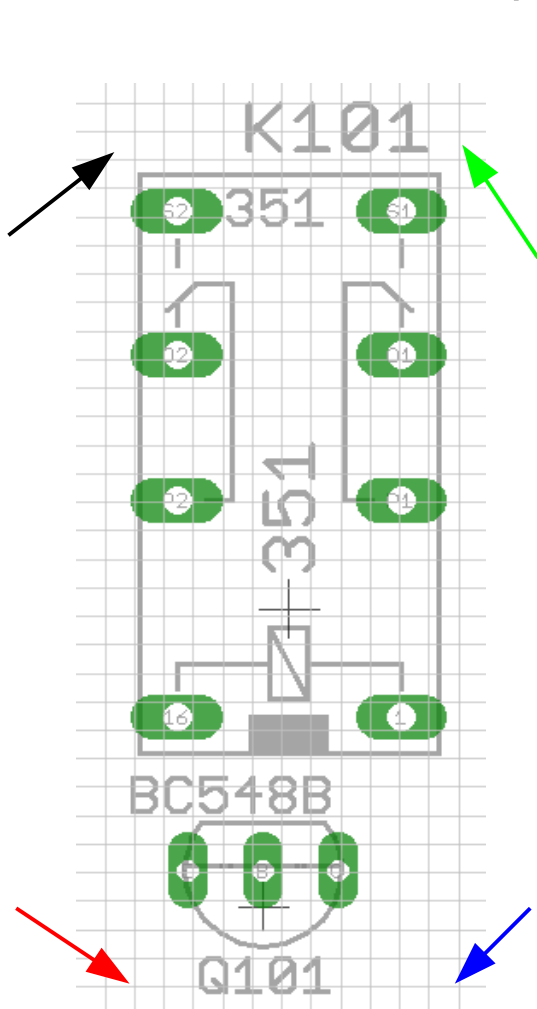


arc cw (40 20) (50 20) (50 20);



Gruppe kopieren

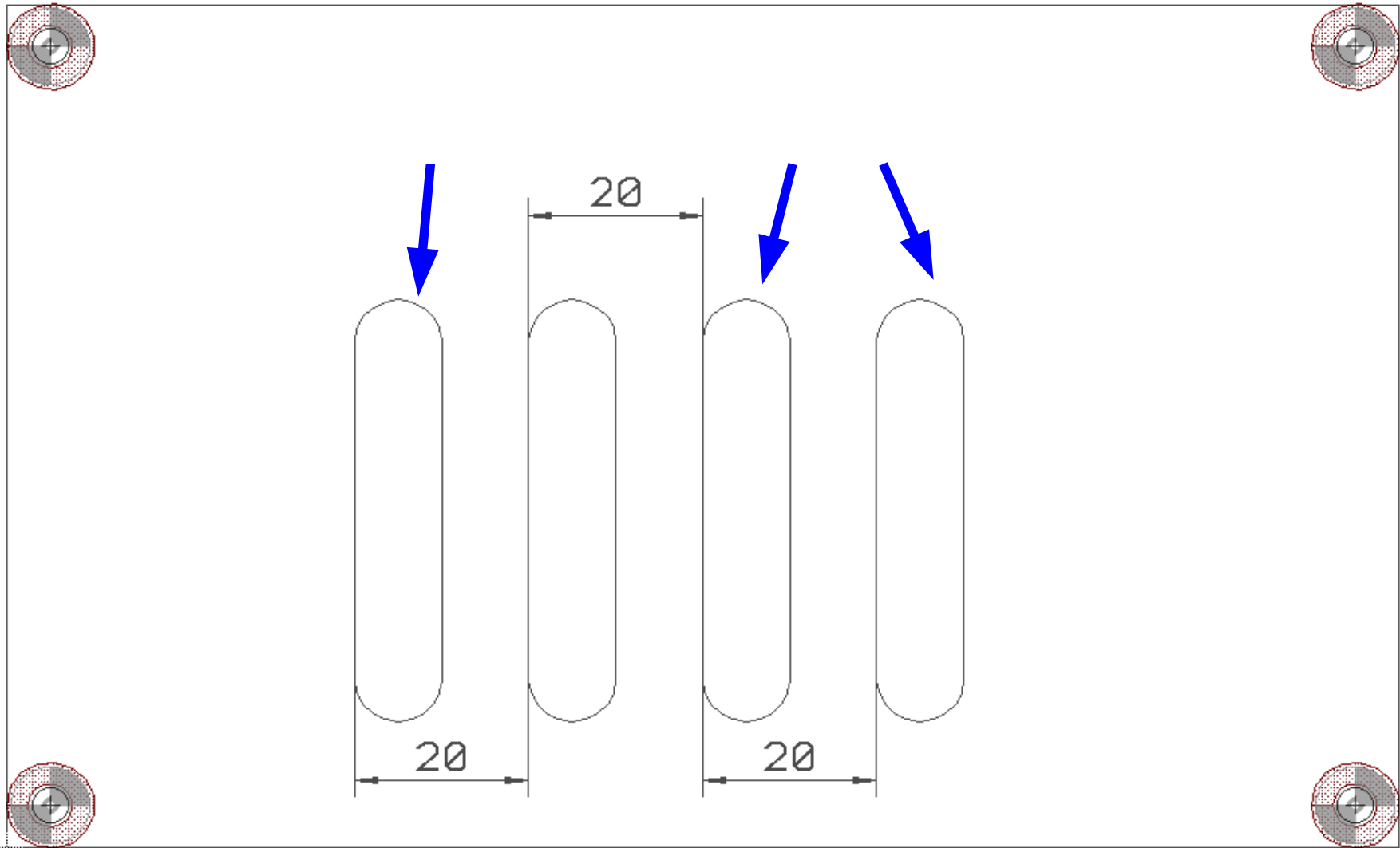
gro (39 14) (53 14) (53 67) (39 67) (39 14);
cut (39 14) (53 14) (53 67) (39 67) (39 14);



pas (59 14);
pas (79 14);
pas (99 14);

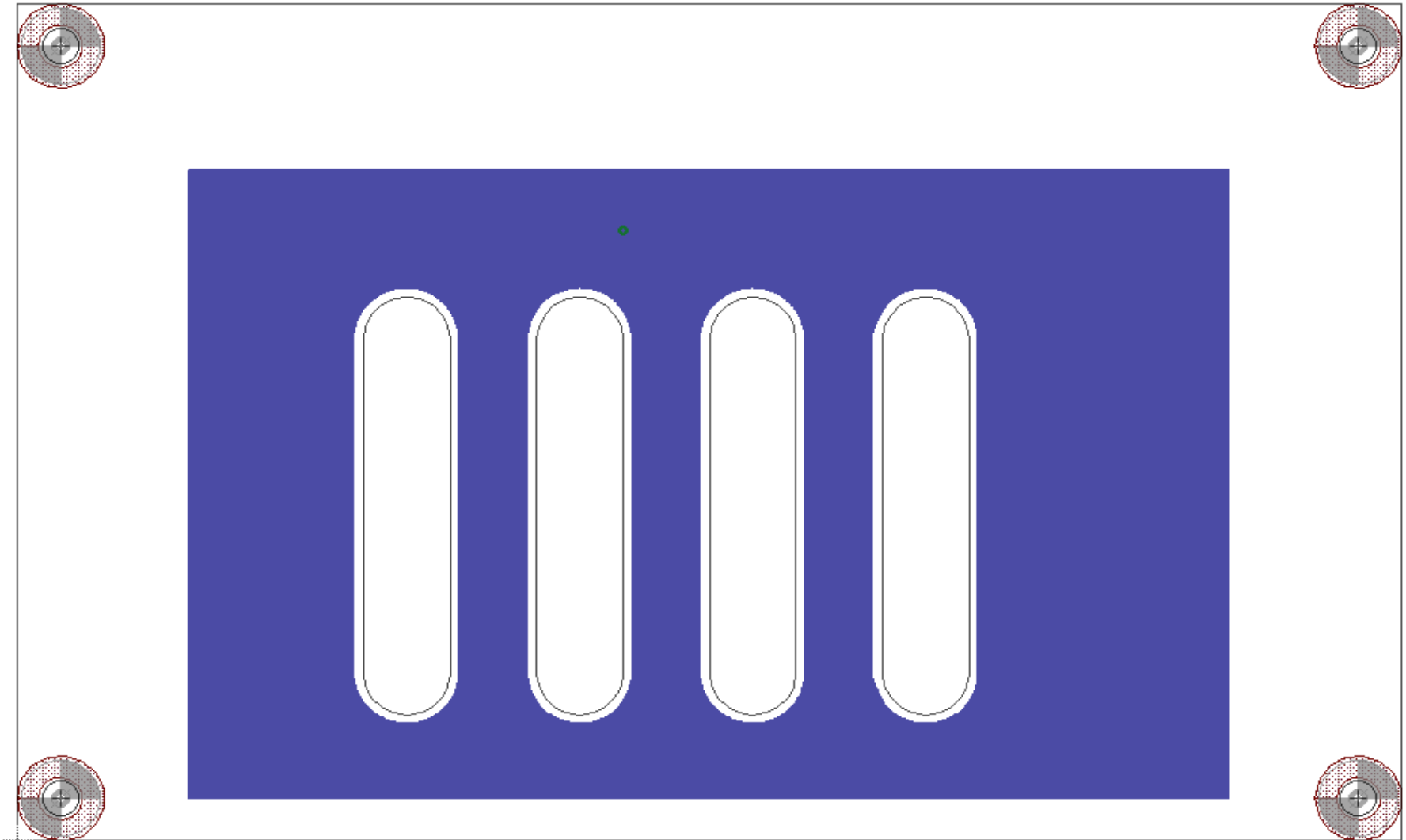
Referenzmarken/Origins gruppieren !

Beispiel 5: Konvektionslöcher



Script ausführen: [scr euro 2](#)

Beispiel 6: Polygone



```
poly gnd (20 20) (50 20) (50 80) (20 80) (20 20);
```


eagle.scr #1



The screenshot shows a text editor window titled "3 Text Editor - /home/luno/eagle/scr/eagle.scr - EAGLE 6.3.0 Professional". The window contains the following script content:

```
SCH:

Grid Default;
Grid alt 0.025;
Change Width 0.006;
change size 0.050;
change ratio 8;
#Menu Add Bus Change Copy Delete Display Gateswap Grid Group Invoke Junction \
#   Label Move Name Net Pinswap Quit Script Show Split Value Window ';' \
#   Wire Write Edit;
change font vector;
```

At the bottom of the window, a status bar displays "1 : 1 Ins Loaded '/home/luno/eagle/scr/eagle.scr'".

Ausführung automatisch bei EAGLE Start !

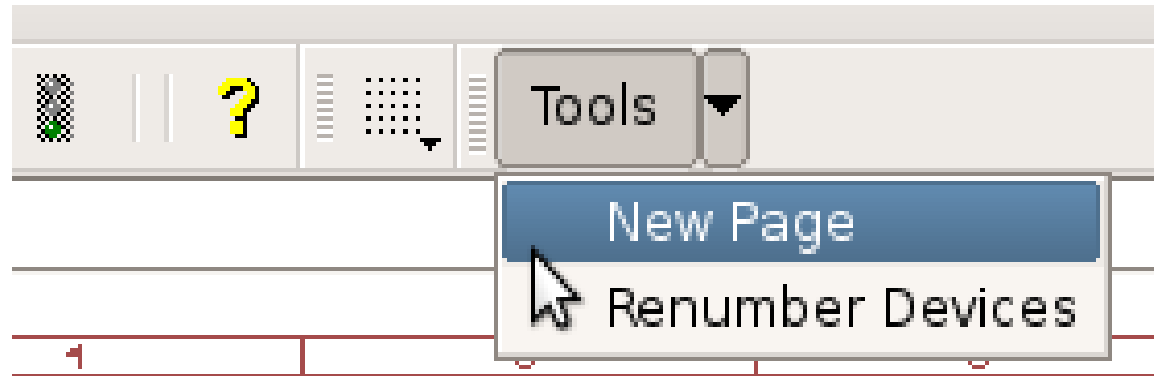
Script manuell ausführen: [scr eagle.scr](#)

eagle.scr #2



MENU 'new_page : SCR /home/luno/eagle/scr/new_page';

eagle.scr #3



```
MENU 'Tools {\n    New Page : SCR /home/luno/eagle/scr/new_page; | \n    Renumber Devices : RUN renumber-sheet.ulp; | \n};
```

Boundary Scan System M-1



Adapterloser Test
bestückter
Leiterplatten ?

System M-1

[klick hier !](#)

[Was ist Boundary Scan ?](#)

JTAG/Boundary Scan System M-1
according to Std. IEEE 1149.1

- Minimal UUT access via 5 wire IEEE1149.1 test bus
- Fault diagnosis down to pin level
- Interconnect Test (short/open detection)
- Memory-Connect Test (RAM/ROM/FLASH)
- Oscillator Test / Clock Test
- LED, Display Test, Logic Test ...



- UUT Power Switch and Monitoring up to 6A / 48 V DC
- full galvanic separation of UUT from Scan Master in Non-Test Mode
- Operator Activity reduced to pushing START / STOP Button
- PASS / FAIL display by just two front panel LEDs

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Links #1



PCB Herstellung:

www.q-print.de (Prototypen)

www.jlp.de (Serienfertigung)

Bauteil-Lieferanten und EMS:

www.ax-electronic.de

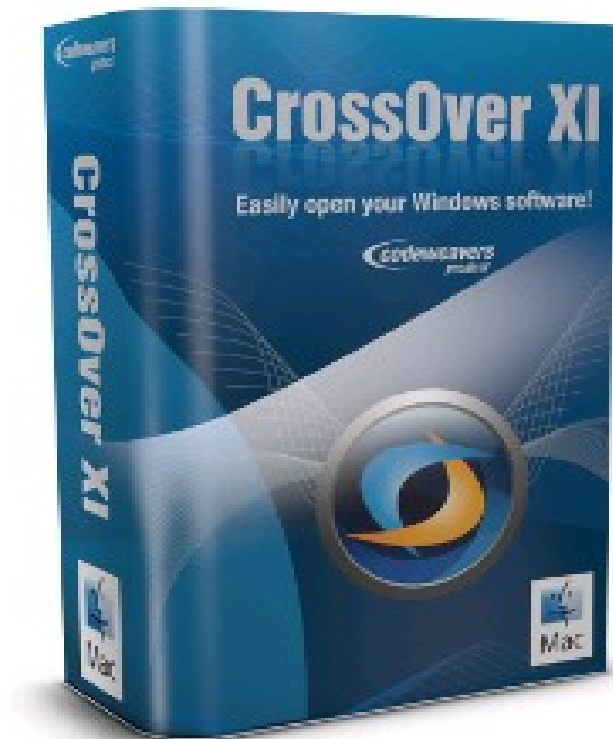
www.technikron.de

www.blunk-electronic.de



Links #2

Run Windows Software on your Linux PC !



easily open your Windows software
codeweavers

700 Raymond Ave.
Suite 120
Saint Paul, MN 55114
USA

Tel. +1 651.523.9300
Fax +1 651.523.9399

<http://www.codeweavers.com>

Danke für Ihre Aufmerksamkeit !