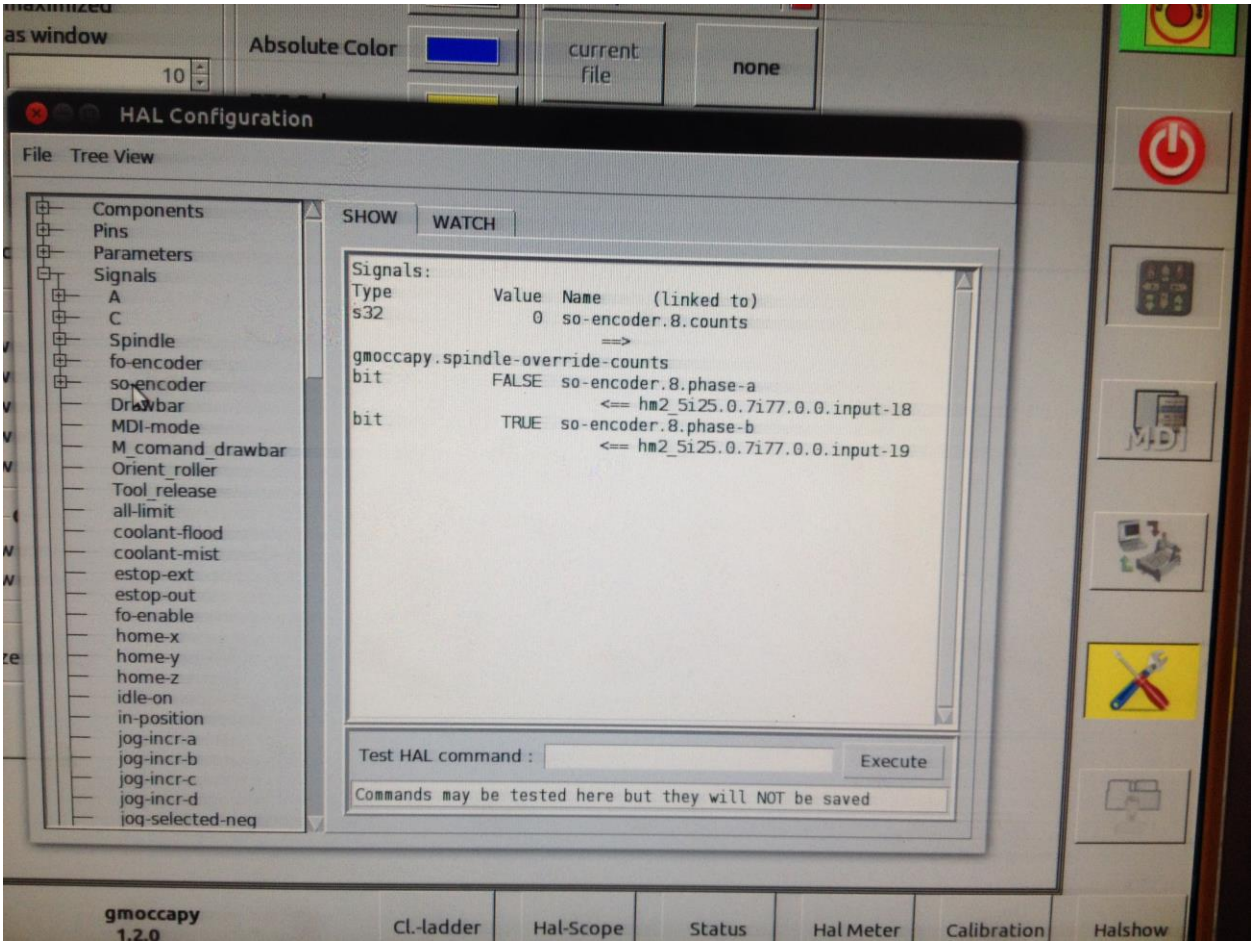
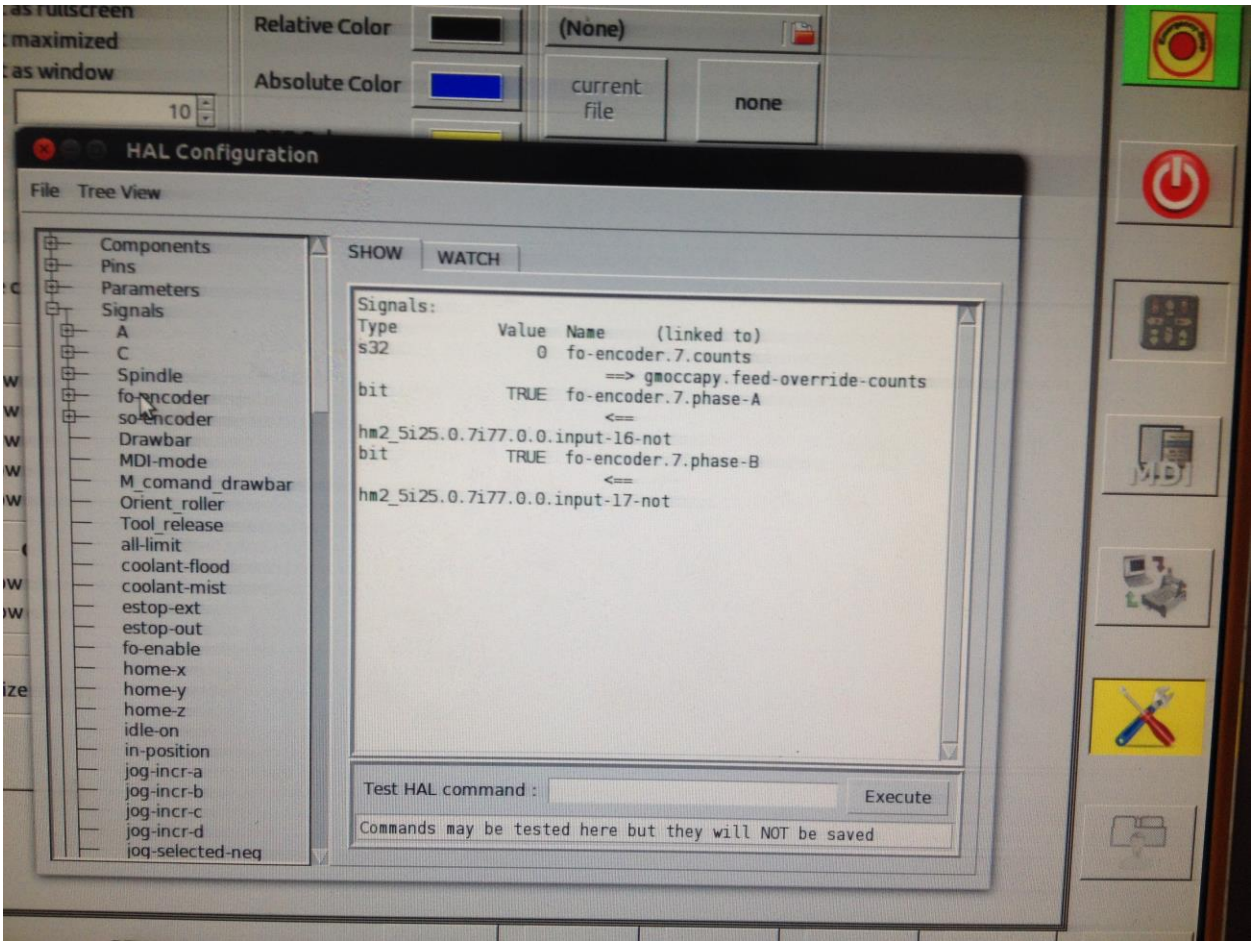
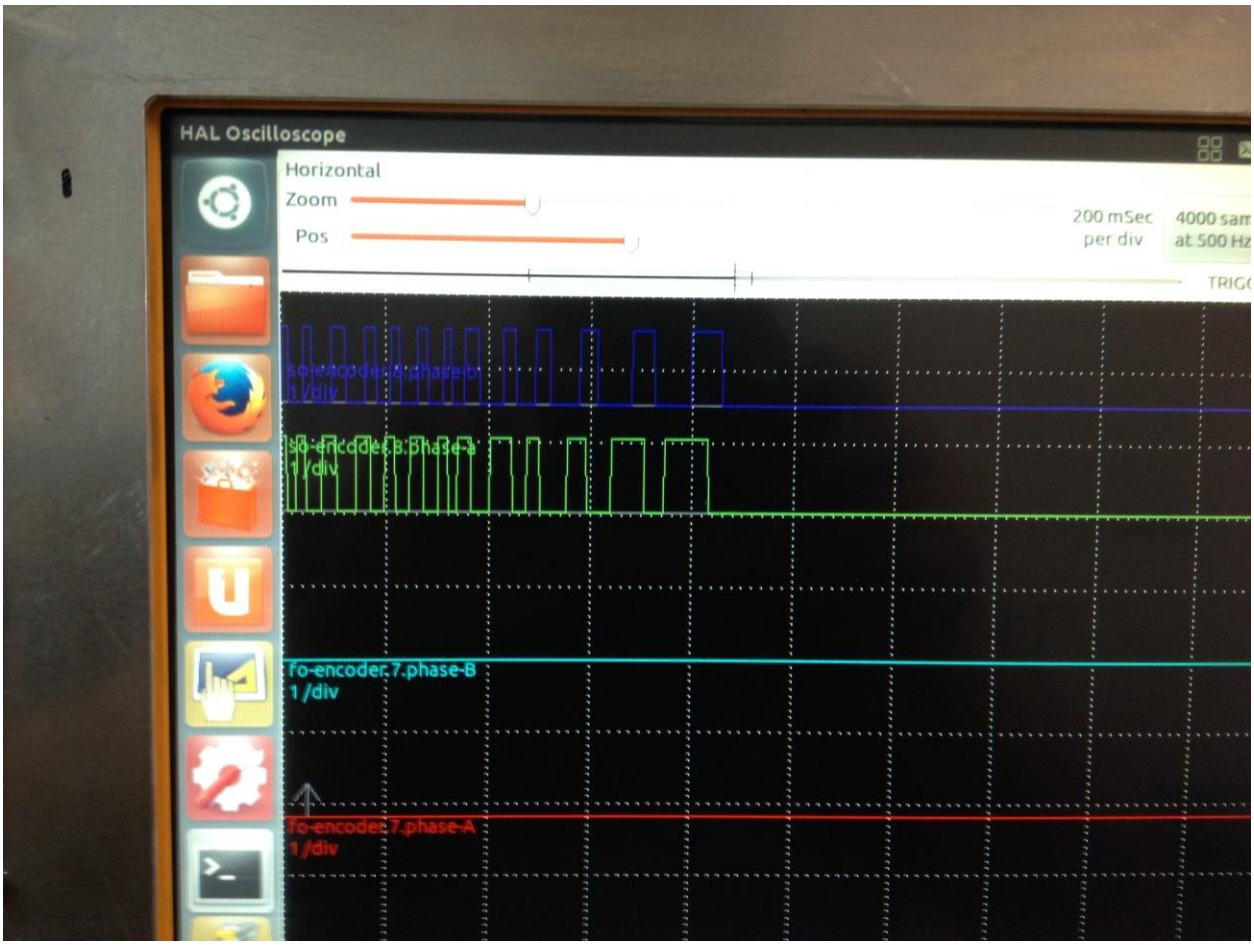
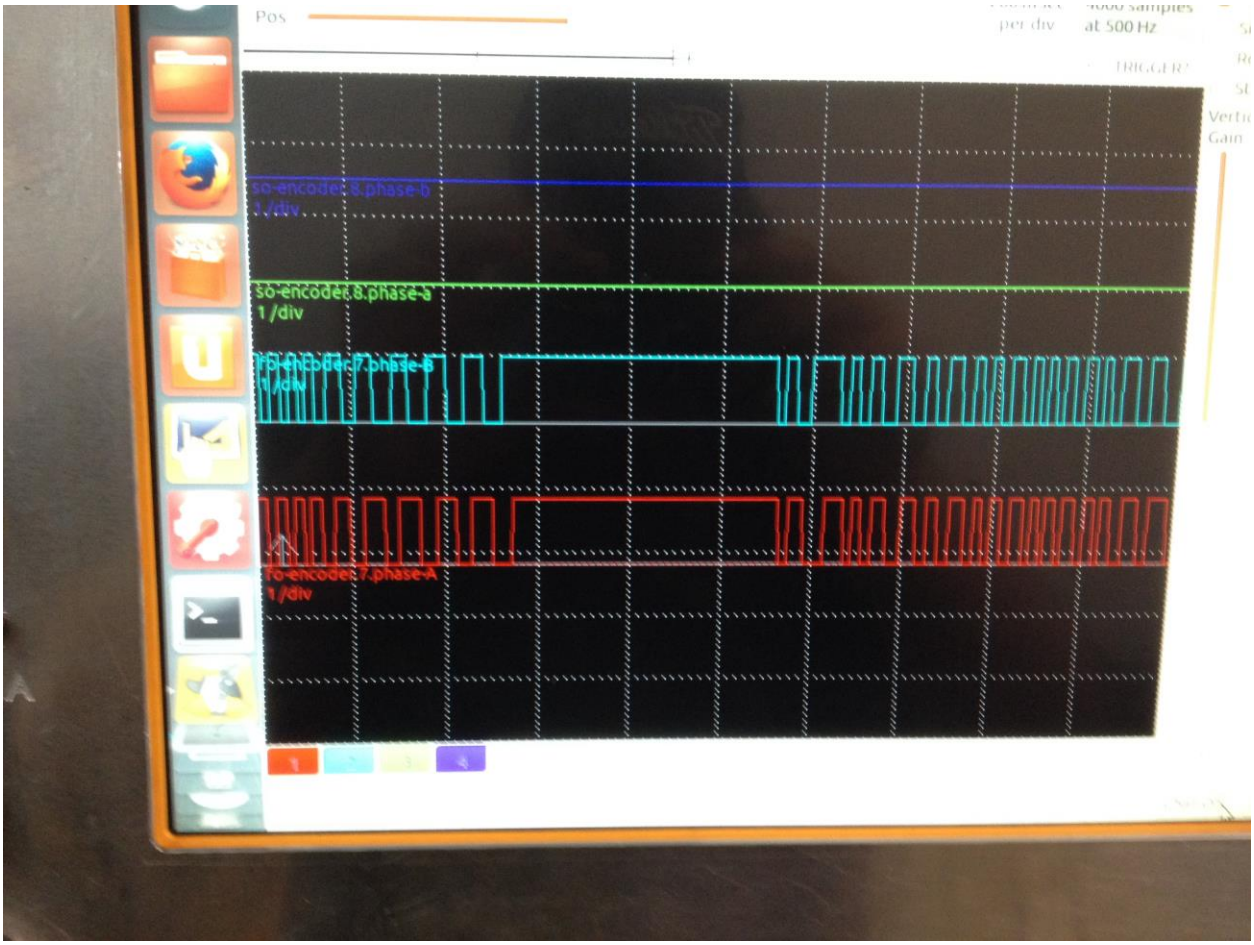
I'm trying to use some encoder switches to adjust feed and spindle overrides. I have a mesa 5i25-7i77 set-up. I using the option 3 and the pins 16,17,18,19 . I get a pulse in hal scope showing they are working but must be missing something in the hal file. I moved the encoder to gmoccapy to the post hal as instructed but still doesn't work.

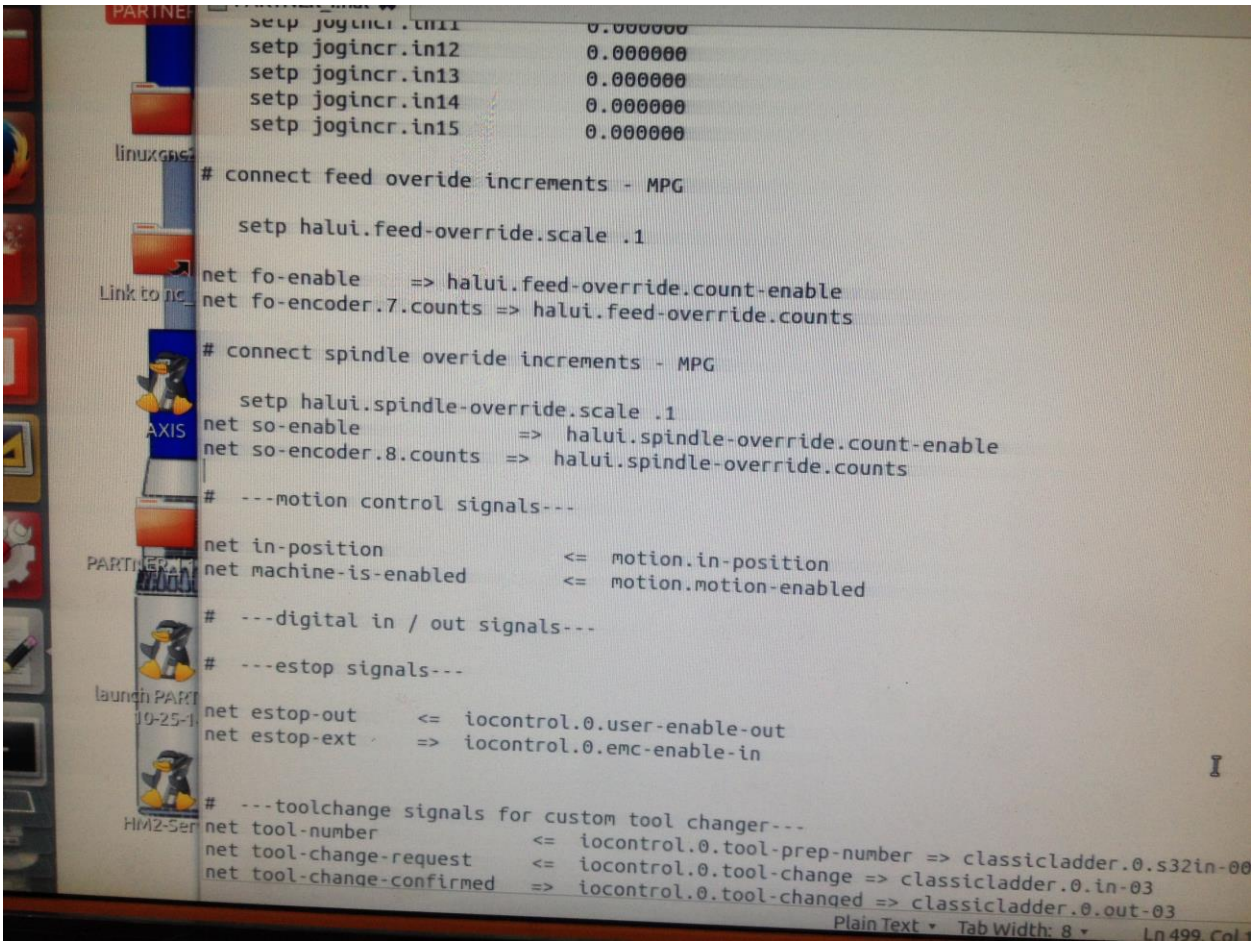


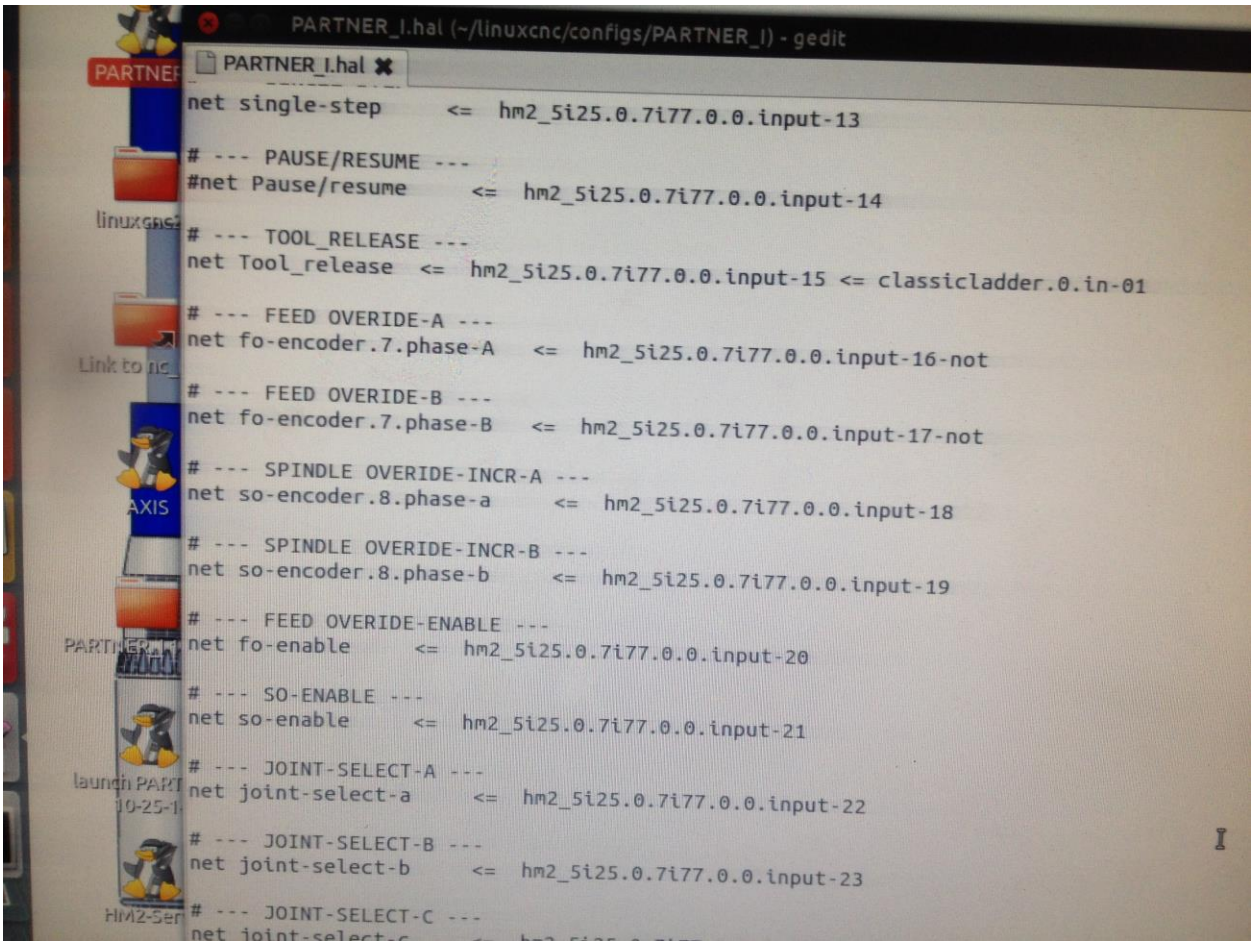

Relative Color
Absolute Color
(None)
current file
none
10
HAL Configuration
File Tree View
Components
Pins
Parameters
Signals
A
C
Spindle
fo-encoder
so-encoder
Drawbar
MDI-mode
M_comand_drawbar
Orient_roller
Tool_release
all-limit
coolant-flood
coolant-mist
estop-ext
estop-out
fo-enable
home-x
home-y
home-z
idle-on
in-position
jog-incr-a
jog-incr-b
jog-incr-c
jog-incr-d
jog-selected-neg
SHOW
WATCH
Signals:
Type Value Name (linked to)
s32 0 fo-encoder.7.counts
==> gmoccapy.feed-override-counts
bit TRUE fo-encoder.7.phase-A
<==
hm2_5i25.0.7i77.0.0.input-16-not
bit TRUE fo-encoder.7.phase-B
<==
hm2_5i25.0.7i77.0.0.input-17-not
Test HAL command :
Execute
Commands may be tested here but they will NOT be saved


HAL Oscilloscope
Horizontal
Zoom
Pos
200 mSec
per div
4000 sam
at 500 Hz
TRIG
so-encoder.3.phase-B
1 /div
so-encoder.3.phase-A
1 /div
fo-encoder.7.phase-B
1 /div
fo-encoder.7.phase-A
1 /div


Pos
per div
at 500 Hz
so-encoder.8.phase-a
1 /div
so-encoder.7.phase-A
1 /div

0.0239
3.7536
-0.0003
AXIS
Y Z
X A
CYCLE START
ABORT
PAUSE RESUME
SINGLE STEP
FEED
SPINDLE
MACHINE ON
TOOL OUT


setp jogincr.in11 0.000000
setp jogincr.in12 0.000000
setp jogincr.in13 0.000000
setp jogincr.in14 0.000000
setp jogincr.in15 0.000000
connect feed overide increments - MPG
setp halui.feed-override.scale .1
net fo-enable => halui.feed-override.count-enable
net fo-encoder.7.counts => halui.feed-override.counts
connect spindle overide increments - MPG
setp halui.spindle-override.scale .1
net so-enable => halui.spindle-override.count-enable
net so-encoder.8.counts => halui.spindle-override.counts
---motion control signals---
net in-position <= motion.in-position
net machine-is-enabled <= motion.motion-enabled
---digital in / out signals---
---estop signals---
net estop-out <= iocontrol.0.user-enable-out
net estop-ext => iocontrol.0.emc-enable-in
---toolchange signals for custom tool changer---
net tool-number <= iocontrol.0.tool-prep-number => classicladder.0.s32in-00
net tool-change-request <= iocontrol.0.tool-change => classicladder.0.in-03
net tool-change-confirmed => iocontrol.0.tool-changed => classicladder.0.out-03
Plain Text
Tab Width: 8


PARTNER_I.hal (~/linuxcnc/configs/PARTNER_I) - gedit
PARTNER_I.hal
net single-step <= hm2_5i25.0.7i77.0.0.input-13
--- PAUSE/RESUME ---
#net Pause/resume <= hm2_5i25.0.7i77.0.0.input-14
--- TOOL_RELEASE ---
net Tool_release <= hm2_5i25.0.7i77.0.0.input-15 <= classicladder.0.in-01
--- FEED OVERIDE-A ---
net fo-encoder.7.phase-A <= hm2_5i25.0.7i77.0.0.input-16-not
--- FEED OVERIDE-B ---
net fo-encoder.7.phase-B <= hm2_5i25.0.7i77.0.0.input-17-not
--- SPINDLE OVERIDE-INCR-A ---
net so-encoder.8.phase-a <= hm2_5i25.0.7i77.0.0.input-18
--- SPINDLE OVERIDE-INCR-B ---
net so-encoder.8.phase-b <= hm2_5i25.0.7i77.0.0.input-19
--- FEED OVERIDE-ENABLE ---
net fo-enable <= hm2_5i25.0.7i77.0.0.input-20
--- SO-ENABLE ---
net so-enable <= hm2_5i25.0.7i77.0.0.input-21
--- JOINT-SELECT-A ---
net joint-select-a <= hm2_5i25.0.7i77.0.0.input-22
--- JOINT-SELECT-B ---
net joint-select-b <= hm2_5i25.0.7i77.0.0.input-23
--- JOINT-SELECT-C ---