## linuxcnc 2.8.2 - Debian 10 Buster PREEMPT-RT ISO Problems with Mesa Configuration Wizard

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The linuxcnc environment was copied to the configs directory in 2.8.2. Linuxcnc was started using the desktop icon (refered to as "icon"). Linuxcnc noted an old 4.7.14 version and ask about upgrading. This was done and linuxcnc worked well and was able to control machine motion.

The Wizard \*.pncconf file was transferred from the 4.7.14 version. This was fed into the 2.8.2 Wizard program. It generated a configuration without complaint (referred to a "pncconf"). Linuxcnc starts with this configuration without complaint. However, there is no axis motion. Similarly data was re-entered into the 2.8.2 Wizard with the same results.

The main \*.ini and \*.hal files (icon.ini/icon.hal | pncconf.ini/pncconf.hal) were compared with the following results (as well as I can view them). Note "icon" works while "pncconf" does not.

KOMPARE (diff)

numbers changed.

custom\_gvcp.hal identical custom\_postgui.hal identical custom.hal identical numbers for G54 X/Y/Z are set in "icon" linuxcnc.var postgui\_call\_list.hal identical shutdown.hal identical "icon" has some tools set, "pncconf" has none tool.tbl \*.ini files "icon" has BACKLASH and increased STEPGEN\_MAXACCEL "icon" & "pncconf" have different max velocity (should be OK) Spindle section wasn't set up for either \*.hal files In X AXIS: "icon" (working version) contains: net x-vel-cmd => pid.x.command-deriv => pid.x.output net x-output "pncconf" instead contains: net x-output <= pid.x.output</pre> "icon" contains: hm2\_5i25.0.gpio.004.invert\_output true setp "pncconf" instead contains: setp hm2\_5i25.0.stepgen.00.direction.invert\_output true "icon" contains: net x-output => hm2\_5i25.0.stepgen.00.velocity-cmd "pncconf" alternately contains: net x-output <= hm2\_5i25.0.stepgen.00.velocity-cmd The above differences repeat for Y/Z with what look like appropriate In "HALUI signals" section:
"icon" uses
 net joint-select-a halui.axis.x.select
"pncconf" insread uses
 net axis-select-x halui.axis.x.select
and this repeats for all Y/Z