[easy]probe Troubleshooting v2.0

1) HAL

If you configured your machine with pncconf, you will find a lot of functionless connections of pins right at the end of your machine hal file under "connect miscellaneous signals". If you don't have an MPG or control desk using 'halui.machine.is-on', find and delete or comment out the following two lines:

```
net   machine-is-on   halui.machine.is-on
net   probe-in        motion.probe-input
```

If you already have an MPG or control desk configured in your hal files or if you're unsure, delete or comment out only the 2nd line and edit your Probe_postgui.hal so that lut_act_panel.in-0 is only linked to the signal name 'machine-is-on' and not to the pin 'halui.machine.is-on' anymore:

```
# net   machine-is-on    lut_act_panel.in-0    <=    halui.machine.is-on
net   machine-is-on    lut_act_panel.in-0
```

If your MPG or control desk allows you to start, pause and stop a program, you might get the following debug message:

```
custom_postgui.hal:77: Pin 'halui.program.is-idle' was already linked to signal 'idle-led'
```

In this case you have to edit your Probe_postgui.hal so that lut_act_panel.in-1 is only linked to the signal name mentioned in the message and not to the pin 'halui.program.is-idle' anymore:

```
# net   program-is-idle    lut_act_panel.in-1    <=    halui.program.is-idle
net   idle-led    lut_act_panel.in-1
```

If your spindle is configured to any other number than spindle.0, open your Probe_postgui.hal and change the number from 'spindle.0.inhibit' to the correct number:

```
net   inhibit-on    lut_inhibit.out    =>    spindle.0.inhibit pyvcp.spindle-inhibit
```

If you for example want to automatically activate a wireless probe tool, there are 4 HAL pins that you can use. While the first 3 only switch to high when the appropriate probe tool is selected, the 4th one switches to high when any of these probe tools is selected:

```
probetool-1-on
probetool-2-on
probetool-3-on
probetool-is-on
```

In case you want to activate something like a digital output of your Mesa card whenever a probe tool is selected, simply connect the HAL pin with your output:

```
net   probetool-is-on    hm2_7i76e.0.7i76.0.0.output-NN
```

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2) XML

If you need to copy the Easy Probe panel into your existing PyVCP panel, the content of your panel has to be set in a tab. Since Easy Probe has already been set between <vbox> and </vbox>, you can simply copy and paste it after you set your content in a tab:

```
<tabs>
    <names>["My Tab", "Easy Probe"]</names>
    <vbox>
        <!-- content of my tab -->
    </vbox>
    <vbox>
        <!-- content of Easy Probe tab -->
    </vbox>
</tabs>
```