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New PathPilot start at Mon May 4 08:26:40 CDT 2020

```
{
  "branch": "release2...origin/release2",
  "build": 6,
  "commit": "20f886a88cc4f6f618116730f01ffb6730956f32",
  "kernels": [
    "4.11.9-rt7"
  ],
  "status": "",
  "tag": "v2.1.2-c3",
  "version": "v2.1.2"
}
```

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starting log rotator

/home/operator/tmc/scripts/logrotator.sh 3600 /home/operator/gcode/logfiles/logrotate.conf /home/operator/gcode/logfiles/logrotate.status

LOGROTATOR\_PID: 1967

Keyboard event is /dev/input/event2

on device /dev/input/event2 key lshift is testing 0

on device /dev/input/event2 key lalt is testing 0

on device /dev/input/event2 key lctrl is testing 0

on device /dev/input/event2 deviceresult = 0

shiftest result is 0

Keyboard event is /dev/input/event2

on device /dev/input/event2 key lshift is testing 0

on device /dev/input/event2 key lalt is testing 0

on device /dev/input/event2 deviceresult = 0

shiftest result is 0

sudo dmidecode -s system-product-name: C2SEA

uname -a: Linux tormachpcnc 4.11.9-rt7 #1 SMP PREEMPT RT Fri Aug 4 12:03:32 CDT 2017 x86\_64 x86\_64 x86\_64

GNU/Linux

Setting environment...

EMC2VERSION=2.8.0~pre1

LINUXCNC\_RT\_LIB\_DIR=/home/operator/tmc/rtlib

TMP\_DIR=/tmp/linuxcnc

EMC2\_HOME=/home/operator/tmc

LD\_LIBRARY\_PATH=/home/operator/tmc/lib

LINUXCNC\_BIN\_DIR=/home/operator/tmc/bin

NML\_FILE=/home/operator/tmc/configs/common/linuxcnc.nml

PYTHONPATH=/home/operator/tmc/python:/home/operator/tmc/lib/python:/home/operator/tmc/python/config\_picker

appending to Python sys.path

appending: /home/operator/tmc/python

appending: /home/operator/tmc/lib/python

appending: /home/operator/tmc/python/config\_picker

PATH=/home/operator/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/

local/games:/home/operator/teamviewerqs:/home/operator/tmc/python:/home/operator/tmc/bin:/home/operator/

tmc/scripts

update file extension is: tgp

2020-05-04 08:26:41.660765 | Tooltips successfully loaded. [/home/operator/v2.1.2/python/

tooltipmgr.py:295]

Checking required additional .deb packages are installed

Checking for package blt installed

package: blt already installed.

Checking for proper grub configuration...

/etc/default/grub already configured for terminal output = vga\_text on boot, no patch needed

Checking for proper samba configuration...

Samba security already set to 'user' in file /etc/samba/smb.conf

Total RAM: 2048 MB

/home/operator/tmc/scripts/drop\_caches.sh starting . . .

xset -dpms:

xset s off:

/home/operator/dropbox.py not present and executable.

No touchscreen found

Disabling ethernet rx irq coalescing

Cannot get device coalesce settings: Operation not supported

Failed to run sudo ethtool --coalesce eth0 rx-usecs 0 rx-frames 1



```
User's HOME directory: /home/operator
TOOL_TABLE=~/.mill_data/tool.tbl
Tool table filename: /home/operator/mill_data/tool.tbl
Tool table machine type: mill
check_machine_tool_table.py /home/operator/mill_data/tool.tbl mill
2020-05-04 08:26:45.419209 | tool file is /home/operator/mill_data/tool.tbl [scripts/
check_machine_tool_table.py:362]
2020-05-04 08:26:45.426621 (+0:00:00.007412) | machine type is mill [scripts/
check_machine_tool_table.py:363]
2020-05-04 08:26:45.427179 (+0:00:00.000558) | Scanning mill tool table [scripts/
check_machine_tool_table.py:107]
2020-05-04 08:26:45.427830 (+0:00:00.000651) | highest tool number: 0 [scripts/
check_machine_tool_table.py:244]
2020-05-04 08:26:45.428518 (+0:00:00.000688) | Modifying tool table for 1000 entries [scripts/
check_machine_tool_table.py:251]
Can not find -sec REDIS -var DISABLE_SERVER -num 1
DISABLE_SERVER=
Can not find -sec REDIS -var SERVER_PATH -num 1
SERVER_PATH=
SERVER_ARGS=--dir ~/.mill_data --dbfilename dump.rdb --save 3600 1 --save 300 100 --save 60 10000
REDIS_SERVER_ARGS: --dir ~/.mill_data --dbfilename dump.rdb --save 3600 1 --save 300 100 --save 60 10000
REDIS_SERVER_ARGS: --dir /home/operator/mill_data --dbfilename dump.rdb --save 3600 1 --save 300 100 --
save 60 10000
Can not find -sec REDIS -var SERVER_LOG -num 1
SERVER_LOG=
Starting LinuxCNC...
Starting redis server program:
redis server started as: 'redis-server --dir /home/operator/mill_data --dbfilename dump.rdb --save 3600 1
--save 300 100 --save 60 10000', logging to: /dev/null
Starting LinuxCNC server program: linuxcncsvr
Starting LinuxCNC IO program: io
io started
halcmd loadusr io started
Starting HAL User Interface program: halui
halcmd loadusr -Wn halui halui -ini /home/operator/tmc/configs/tormach_mill/tormach_1100-3.ini
halcmd -i /home/operator/tmc/configs/tormach_mill/tormach_1100-3.ini -f novakon.hal
Note: Using POSIX realtime
hm2: loading Mesa HostMot2 driver version 0.15
hm2_pci: loading Mesa AnyIO HostMot2 driver version 0.7
hm2_pci: discovered 5i25 at 0000:03:02.0
hm2/hm2_5i25.0: 34 I/O Pins used:
hm2/hm2_5i25.0: IO Pin 000 (P3-01): StepGen #0, pin Step (Output)
hm2/hm2_5i25.0: IO Pin 001 (P3-14): PWMGen #0, pin Out1 (Dir or Down) (Output)
hm2/hm2_5i25.0: IO Pin 002 (P3-02): StepGen #0, pin Direction (Output)
hm2/hm2_5i25.0: IO Pin 003 (P3-15): IOPort
hm2/hm2_5i25.0: IO Pin 004 (P3-03): StepGen #1, pin Step (Output)
hm2/hm2_5i25.0: IO Pin 005 (P3-16): PWMGen #0, pin Out0 (PWM or Up) (Output)
hm2/hm2_5i25.0: IO Pin 006 (P3-04): StepGen #1, pin Direction (Output)
hm2/hm2_5i25.0: IO Pin 007 (P3-17): StepGen #4, pin Step (Output)
hm2/hm2_5i25.0: IO Pin 008 (P3-05): StepGen #2, pin Step (Output)
hm2/hm2_5i25.0: IO Pin 009 (P3-06): StepGen #2, pin Direction (Output)
hm2/hm2_5i25.0: IO Pin 010 (P3-07): StepGen #3, pin Step (Output)
hm2/hm2_5i25.0: IO Pin 011 (P3-08): StepGen #3, pin Direction (Output)
hm2/hm2_5i25.0: IO Pin 012 (P3-09): IOPort
hm2/hm2_5i25.0: IO Pin 013 (P3-10): IOPort
hm2/hm2_5i25.0: IO Pin 014 (P3-11): IOPort
hm2/hm2_5i25.0: IO Pin 015 (P3-12): IOPort
hm2/hm2_5i25.0: IO Pin 016 (P3-13): IOPort
hm2/hm2_5i25.0: IO Pin 017 (P2-01): IOPort
hm2/hm2_5i25.0: IO Pin 018 (P2-14): IOPort
hm2/hm2_5i25.0: IO Pin 019 (P2-02): IOPort
hm2/hm2_5i25.0: IO Pin 020 (P2-15): IOPort
hm2/hm2_5i25.0: IO Pin 021 (P2-03): IOPort
hm2/hm2_5i25.0: IO Pin 022 (P2-16): IOPort
hm2/hm2_5i25.0: IO Pin 023 (P2-04): IOPort
hm2/hm2_5i25.0: IO Pin 024 (P2-17): IOPort
hm2/hm2_5i25.0: IO Pin 025 (P2-05): IOPort
```

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hm2/hm2_5i25.0:      IO Pin 026 (P2-06): IOPort
hm2/hm2_5i25.0:      IO Pin 027 (P2-07): IOPort
hm2/hm2_5i25.0:      IO Pin 028 (P2-08): IOPort
hm2/hm2_5i25.0:      IO Pin 029 (P2-09): IOPort
hm2/hm2_5i25.0:      IO Pin 030 (P2-10): IOPort
hm2/hm2_5i25.0:      IO Pin 031 (P2-11): IOPort
hm2/hm2_5i25.0:      IO Pin 032 (P2-12): IOPort
hm2/hm2_5i25.0:      IO Pin 033 (P2-13): IOPort
hm2/hm2_5i25.0: registered
hm2_5i25.0: initialized AnyIO board at 0000:03:02.0
Starting TASK program: milltask
task pid=2456
Starting DISPLAY program: /home/operator/tmc/python/tormach_mill_ui.py
Setting tolerance to 0.000000
Setting tolerance to 0.050800
Setting naivecam tolerance to 0.000000
tormach_mill_ui.py arguments are ['/home/operator/tmc/python/tormach_mill_ui.py', '-ini', '/home/
operator/tmc/configs/tormach_mill/tormach_1100-3.ini']
Using locale ('en_US', 'UTF-8')
msg_hello
2020-05-04 08:26:50.060917 | GUI thread id is 139695766079296 [/home/operator/v2.1.2/python/
ui_common.py:468]
2020-05-04 08:26:50.145578 (+0:00:00.084661) | Material data imported [/home/operator/v2.1.2/python/
ui_support.py:979]
Ini file is: <linuxcnc.ini object at 0x7f0d65a9f990>
2020-05-04 08:26:50.161699 | Tooltips successfully loaded. [/home/operator/v2.1.2/python/
tooltipmgr.py:295]
2020-05-04 08:26:50.286660 | Stepover data imported [/home/operator/v2.1.2/python/mill_fs.py:588]
2020-05-04 08:26:50.290723 (+0:00:00.004063) | Mill __init__ after initial status.poll() - tool in
spindle is 0 [tormach_mill_ui.py:518]
2020-05-04 08:26:50.343973 (+0:00:00.053250) | UI version: v2.1.2 [/home/operator/v2.1.2/python/
ui_common.py:3614]
2020-05-04 08:26:50.585032 (+0:00:00.241059) | spindle type: 0 [tormach_mill_ui.py:1133]
2020-05-04 08:26:50.629743 (+0:00:00.044711) | Found engraving font: Bebas.ttf. [tormach_mill_ui.py:2141]
2020-05-04 08:26:50.634783 (+0:00:00.005040) | Found engraving font: FreeMono.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:26:50.639606 (+0:00:00.004823) | Found engraving font: FreeMonoBold.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:26:50.644913 (+0:00:00.005307) | Found engraving font: FreeMonoBoldOblique.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:26:50.649647 (+0:00:00.004734) | Found engraving font: FreeMonoOblique.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:26:50.653767 (+0:00:00.004120) | Found engraving font: FreeSans.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:26:50.657081 (+0:00:00.003314) | Found engraving font: FreeSansBold.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:26:50.660851 (+0:00:00.003770) | Found engraving font: FreeSansBoldOblique.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:26:50.664008 (+0:00:00.003157) | Found engraving font: FreeSansOblique.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:26:50.667196 (+0:00:00.003188) | Found engraving font: FreeSerif.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:26:50.671231 (+0:00:00.004035) | Found engraving font: FreeSerifBold.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:26:50.675624 (+0:00:00.004393) | Found engraving font: FreeSerifBoldItalic.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:26:50.679887 (+0:00:00.004263) | Found engraving font: FreeSerifItalic.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:26:50.688085 (+0:00:00.008198) | Refreshing tool liststore due to linear scale change
[tormach_mill_ui.py:8983]
INFO      application.dbusnode start      200 : - Publishing DBus service: com.tormach.Dxf2GCode
2020-05-04 08:26:52.898991 (+0:00:02.210906) | Refreshing tool liststore - complete.
[tormach_mill_ui.py:8994]
2020-05-04 08:26:52.911199 (+0:00:00.012208) | enable home axis 0, flag 1 [/home/operator/v2.1.2/python/
ui_common.py:3007]
2020-05-04 08:26:52.934193 (+0:00:00.022994) | enable home axis 1, flag 1 [/home/operator/v2.1.2/python/
ui_common.py:3007]
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2020-05-04 08:26:52.956821 (+0:00:00.022628) | enable home axis 2, flag 1 [/home/operator/v2.1.2/python/
ui_common.py:3007]
2020-05-04 08:26:52.980829 (+0:00:00.024008) | no enc_door_open_max_rpm found in redis defaulting to 1000
[tormach_mill_ui.py:1677]
2020-05-04 08:26:52.981552 (+0:00:00.000723) | enclosure door open max rpm: 1000 [tormach_mill_ui.py:1680]
2020-05-04 08:26:53.445288 (+0:00:00.463736) | Mill __init__ complete - tool in spindle is 0
[tormach_mill_ui.py:1754]
2020-05-04 08:26:53.446167 (+0:00:00.000879) | screen resolution is now 1024 x 768
[tormach_mill_ui.py:9368]
2020-05-04 08:26:53.500871 (+0:00:00.054704) | caught attempt to change outside restricted directory: /
home/operator/gcode [/home/operator/v2.1.2/python/tormach_file_util.py:772]
2020-05-04 08:26:53.504983 (+0:00:00.004112) | forcing current directory to /media/operator [/home/
operator/v2.1.2/python/tormach_file_util.py:773]
2020-05-04 08:26:54.010799 (+0:00:00.505816) | LinuxCNC status.task_mode change was unknown is now
MODE_MANUAL [tormach_mill_ui.py:8359]
2020-05-04 08:26:54.011441 (+0:00:00.000642) | LinuxCNC interp_state change was unknown is now
INTERP_IDLE [tormach_mill_ui.py:8366]
2020-05-04 08:26:54.012048 (+0:00:00.000607) | status.task_state was unknown is now STATE_STOP
[tormach_mill_ui.py:8389]
2020-05-04 08:27:02.555168 (+0:00:08.543120) | Switched to notebook page: OFFSETS_PAGE
[tormach_mill_ui.py:4378]
2020-05-04 08:27:02.621070 (+0:00:00.065902) | Part number data imported from file /home/operator/tmc/
material_data/tooling-part-numbers.csv, count = 760 [/home/operator/v2.1.2/python/ui_support.py:1327]
2020-05-04 08:27:02.633936 (+0:00:00.012866) | CPU usage was 0.0, is now 20.4 [tormach_mill_ui.py:8397]
2020-05-04 08:27:03.672598 (+0:00:01.038662) | CPU usage was 20.4, is now 5.9 [tormach_mill_ui.py:8397]
2020-05-04 08:27:07.769570 (+0:00:04.096972) | Screen shot saved to /home/operator/gcode/logfiles/
screenshot-4.png [/home/operator/v2.1.2/python/ui_common.py:2724]
2020-05-04 08:27:07.974798 (+0:00:00.205228) | CPU usage was 5.9, is now 39.9 [tormach_mill_ui.py:8397]
2020-05-04 08:27:08.478510 (+0:00:00.503712) | CPU usage was 39.9, is now 6.0 [tormach_mill_ui.py:8397]
2020-05-04 08:27:20.403932 (+0:00:11.925422) | exit button was pressed. [/home/operator/v2.1.2/python/
ui_common.py:1093]
2020-05-04 08:27:20.808076 (+0:00:00.404144) | CPU usage was 6.0, is now 37.0 [tormach_mill_ui.py:8397]
2020-05-04 08:27:21.313221 (+0:00:00.505145) | CPU usage was 37.0, is now 15.8 [tormach_mill_ui.py:8397]
Killing child process 2481 dxf2gcode_dbus
Killing child process 2488 dxf2gcode_dbus
hm2_pci s32 RW 62349 hm2_5i25.0.read.tmax
hm2_pci bit R0 FALSE hm2_5i25.0.read.tmax-increased
hm2_pci s32 RW 45682 hm2_5i25.0.write.tmax
hm2_pci bit R0 FALSE hm2_5i25.0.write.tmax-increased
motmod s32 RW 22799 motion-command-handler.tmax
motmod bit R0 FALSE motion-command-handler.tmax-increased
motmod s32 RW 71862 motion-controller.tmax
motmod bit R0 FALSE motion-controller.tmax-increased

Shutting down and cleaning up LinuxCNC...
2423
Killing linuxcncsvr
Killing task linuxcncsvr, PID=2423
  PID TTY          STAT TIME  COMMAND
2456
Killing milltask
Killing task milltask, PID=2456
calling previous SIGTERM handler
task: 3595 cycles, min=0.000093, max=0.020511, avg=0.010006, 0 latency excursions (> 10x expected cycle
time of 0.010000s)
REMAP hal component started 2020-05-04 08:26:47
  PID TTY          STAT TIME  COMMAND
2422
Killing redis-server
Killing task redis-server, PID=2422
  PID TTY          STAT TIME  COMMAND
Stopping realtime threads
halcmd stop
Unloading hal components
halcmd unload all
shuttleexpress4: exiting
hm2_5i25.0: dropping AnyIO board at 0000:03:02.0

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hm2/hm2_5i25.0: unregistered
RTAPI_PCI: Unmapped 65536 bytes at 0x7f8a1624b000
hm2_pci: driver unloaded
hm2: unloading
Removing HAL_LIB, RTAPI, and Real Time OS modules
Removing NML shared memory segments
rm /tmp/linuxcnc.lock
Cleanup done
TOOL_TABLE=~/.mill_data/tool.tbl
Tool table filename: /home/operator/mill_data/tool.tbl
Tool table machine type: mill
Migrating mill only tool info for 1-256 from tool table to tool.tbl
check_machine_tool_table.py /home/operator/mill_data/tool.tbl mill update-256
2020-05-04 08:27:24.172326 | tool file is /home/operator/mill_data/tool.tbl [scripts/
check_machine_tool_table.py:362]
2020-05-04 08:27:24.179548 (+0:00:00.007222) | machine type is mill [scripts/
check_machine_tool_table.py:363]
2020-05-04 08:27:24.179899 (+0:00:00.000351) | Back porting tools 1-256 to old mill tool.tbl file
[scripts/check_machine_tool_table.py:69]
Return code from linuxcnc script: 0
linuxcnc script exited normally.
no update file found, exiting normally
Keyboard event is /dev/input/event2
on device /dev/input/event2 key lshift is testing 0
on device /dev/input/event2 key lalt is testing 0
on device /dev/input/event2 deviceresult = 0
shiftest result is 0
Keyboard event is /dev/input/event2
on device /dev/input/event2 key lshift is testing 0
on device /dev/input/event2 key lalt is testing 0
on device /dev/input/event2 deviceresult = 0
shiftest result is 0
sudo dmidecode -s system-product-name: C2SEA
uname -a: Linux tormachpcnc 4.11.9-rt7 #1 SMP PREEMPT RT Fri Aug 4 12:03:32 CDT 2017 x86_64 x86_64 x86_64
GNU/Linux
NOT running in virtualized OS environment.
-----
New PathPilot start at Mon May 4 08:28:25 CDT 2020
{
  "branch": "release2...origin/release2",
  "build": 6,
  "commit": "20f886a88cc4f6f618116730f01ffb6730956f32",
  "kernels": [
    "4.11.9-rt7"
  ],
  "status": "",
  "tag": "v2.1.2-c3",
  "version": "v2.1.2"
}
-----
starting log rotator
/home/operator/tmc/scripts/logrotator.sh 3600 /home/operator/gcode/logfiles/logrotate.conf /home/operator/
gcode/logfiles/logrotate.status
LOGROTATOR_PID: 2099
Keyboard event is /dev/input/event2
on device /dev/input/event2 key lshift is testing 0
on device /dev/input/event2 key lalt is testing 0
on device /dev/input/event2 key lctrl is testing 0
on device /dev/input/event2 deviceresult = 0
shiftest result is 0
Keyboard event is /dev/input/event2
on device /dev/input/event2 key lshift is testing 0
on device /dev/input/event2 key lalt is testing 0
on device /dev/input/event2 deviceresult = 0
shiftest result is 0
sudo dmidecode -s system-product-name: C2SEA
uname -a: Linux tormachpcnc 4.11.9-rt7 #1 SMP PREEMPT RT Fri Aug 4 12:03:32 CDT 2017 x86_64 x86_64 x86_64

```

```
GNU/Linux  
Setting environment...  
EMC2VERSION=2.8.0~pre1  
LINUXCNC_RTLib_DIR=/home/operator/tmc/rllib  
TMP_DIR=/tmp/linuxcnc  
EMC2_HOME=/home/operator/tmc  
LD_LIBRARY_PATH=/home/operator/tmc/lib  
LINUXCNC_BIN_DIR=/home/operator/tmc/bin  
NML_FILE=/home/operator/tmc/configs/common/linuxcnc.nml  
PYTHONPATH=/home/operator/tmc/python:/home/operator/tmc/lib/python:/home/operator/tmc/python/config_picker  
appending to Python sys.path  
appending: /home/operator/tmc/python  
appending: /home/operator/tmc/lib/python  
appending: /home/operator/tmc/python/config_picker  
PATH=/home/operator/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/  
local/games:/home/operator/teamviewerqs:/home/operator/tmc/python:/home/operator/tmc/bin:/home/operator/  
tmc/scripts  
update file extension is: tgp  
2020-05-04 08:28:27.269650 | Tooltips successfully loaded. [/home/operator/v2.1.2/python/  
tooltipmgr.py:295]  
Checking required additional .deb packages are installed  
Checking for package blt installed  
package: blt already installed.  
Checking for proper grub configuration...  
/etc/default/grub already configured for terminal output = vga_text on boot, no patch needed  
Checking for proper samba configuration...  
Samba security already set to 'user' in file /etc/samba/smb.conf  
Total RAM: 2048 MB  
/home/operator/tmc/scripts/drop_caches.sh starting . . .  
xset -dpms:  
xset s off:  
/home/operator/dropbox.py not present and executable.  
No touchscreen found  
Disabling ethernet rx irq coalescing  
Cannot get device coalesce settings: Operation not supported  
Failed to run sudo ethtool --coalesce eth0 rx-usecs 0 rx-frames 1  
Cannot get device coalesce settings: Operation not supported  
Failed to run sudo ethtool --show-coalesce eth0  
USB mount point: /media/operator  
sudo python /home/operator/tmc/scripts/update_cgconfig.py: Total RAM: 2048 MB  
Utility CG Size: 400 MB  
Utility CG VM Size: 750 MB  
/etc/cgconfig.conf updated.  
cgconfigparser successfully loaded /etc/cgconfig.conf  
no update file found  
PCI FPGA interface card is installed.  
top of pathpilotmanager.py while() loop  
/home/operator/tmc/bin/rtapi_app owner: 0, group: 0, mode" 104755  
sudo chown root:root /home/operator/tmc/bin/rtapi_app:  
sudo chmod 4755 /home/operator/tmc/bin/rtapi_app:  
/home/operator/tmc/bin/rtapi_app owner: 0, group: 0 mode" 104755  
done checking rtapi_app permissions  
configured INI file: /home/operator/tmc/configs/tormach_mill/tormach_1100-3.ini  
set_comm_method.py db25parallel  
already setup for machine control by db25 parallel so not doing anything.  
[HOSTMOT2]BITFILE0: /home/operator/tmc/mesa/Torus.bit  
PCI attached FPGA.  
Mesa PCI FPGA interface card is installed.  
['sudo', '/home/operator/tmc/bin/mesaflash', '--device', '5i25', '--verify', '/home/operator/tmc/mesa/  
Torus.bit']  
Checking file... OK  
File type: BIT file  
Boot sector OK  
Verifying EEPROM sectors starting from 0x100000...  
|VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV  
Board configuration verified successfully.  
mesaflash returned 0
```

```
FPGA .bit file programming verified as correct.
About to run scripts/start_linuxcnc.
prefix: /home/operator/tmc
exec_prefix: /home/operator/tmc
EMC2_BIN_DIR=/home/operator/tmc/bin
EMC2_RTLLIB_DIR=/home/operator/tmc/rtlib
INIFILE: /home/operator/tmc/configs/tormach_mill/tormach_1100-3.ini
expanded INIFILE: /home/operator/tmc/configs/tormach_mill/tormach_1100-3.ini
EXTRA_ARGS:
RUN_IN_PLACE=yes
LINUXCNC version - 2.8.0~pre1
LINUXCNC_DIR=
LINUXCNC_BIN_DIR=/home/operator/tmc/bin
LINUXCNC_RTLLIB_DIR=/home/operator/tmc/rtlib
INIVAR=inivar
HALCMD=halcmd
DEBUG not defined so python IS optimizing.
PYTHONOPTIMIZE=YES
inserted into PYTHONPATH: /home/operator/tmc/configs/tormach_mill/python
new PYTHONPATH: /home/operator/tmc/configs/tormach_mill/python:/home/operator/tmc/python:/home/operator/
tmc/lib/python:/home/operator/tmc/python/config_picker
Machine configuration directory is '/home/operator/tmc/configs/tormach_mill'
Machine configuration file is 'tormach_1100-3.ini'
INIFILE=/home/operator/tmc/configs/tormach_mill/tormach_1100-3.ini
PARAMETER_FILE=~/.mill_data/emc.var
Can not find -sec MOT -var MOT -num 1
Can not find -sec IO -var IO -num 1
TASK=milltask
HALUI=halui
DISPLAY=tormach_mill_ui.py
EMCDISPLAY_FULLPATH: /home/operator/tmc/python/tormach_mill_ui.py
EMCDISPLAY_DIR: /home/operator/tmc/python
inserted into PYTHONPATH: /home/operator/tmc/python
new PYTHONPATH: /home/operator/tmc/python:/home/operator/tmc/configs/tormach_mill/python:/home/operator/
tmc/python:/home/operator/tmc/lib/python:/home/operator/tmc/python/config_picker
NML_FILE: /home/operator/tmc/configs/common/linuxcnc.nml
User's HOME directory: /home/operator
TOOL_TABLE=~/.mill_data/tool.tbl
Tool table filename: /home/operator/mill_data/tool.tbl
Tool table machine type: mill
check_machine_tool_table.py /home/operator/mill_data/tool.tbl mill
2020-05-04 08:28:30.972155 | tool file is /home/operator/mill_data/tool.tbl [scripts/
check_machine_tool_table.py:362]
2020-05-04 08:28:30.979523 (+0:00:00.007368) | machine type is mill [scripts/
check_machine_tool_table.py:363]
2020-05-04 08:28:30.980991 (+0:00:00.001468) | Scanning mill tool table [scripts/
check_machine_tool_table.py:107]
2020-05-04 08:28:30.981992 (+0:00:00.001001) | highest tool number: 0 [scripts/
check_machine_tool_table.py:244]
2020-05-04 08:28:30.982408 (+0:00:00.000416) | Modifying tool table for 1000 entries [scripts/
check_machine_tool_table.py:251]
Can not find -sec REDIS -var DISABLE_SERVER -num 1
DISABLE_SERVER=
Can not find -sec REDIS -var SERVER_PATH -num 1
SERVER_PATH=
SERVER_ARGS=--dir ~/.mill_data --dbfilename dump.rdb --save 3600 1 --save 300 100 --save 60 10000
REDIS_SERVER_ARGS: --dir ~/.mill_data --dbfilename dump.rdb --save 3600 1 --save 300 100 --save 60 10000
REDIS_SERVER_ARGS: --dir /home/operator/mill_data --dbfilename dump.rdb --save 3600 1 --save 300 100 --
save 60 10000
Can not find -sec REDIS -var SERVER_LOG -num 1
SERVER_LOG=
Starting LinuxCNC...
Starting redis server program:
redis server started as: 'redis-server --dir /home/operator/mill_data --dbfilename dump.rdb --save 3600 1
--save 300 100 --save 60 10000', logging to: /dev/null
Starting LinuxCNC server program: linuxcncsvr
Starting LinuxCNC IO program: io
```



```
io started
halcmd loadusr io started
Starting HAL User Interface program: halui
halcmd loadusr -Wn halui halui -ini /home/operator/tmc/configs/tormach_mill/tormach_1100-3.ini
halcmd -i /home/operator/tmc/configs/tormach_mill/tormach_1100-3.ini -f novakon.hal
Note: Using POSIX realtime
hm2: loading Mesa HostMot2 driver version 0.15
hm2_pci: loading Mesa AnyIO HostMot2 driver version 0.7
hm2_pci: discovered 5i25 at 0000:03:02.0
hm2/hm2_5i25.0: 34 I/O Pins used:
hm2/hm2_5i25.0: IO Pin 000 (P3-01): StepGen #0, pin Step (Output)
hm2/hm2_5i25.0: IO Pin 001 (P3-14): PWMGen #0, pin Out1 (Dir or Down) (Output)
hm2/hm2_5i25.0: IO Pin 002 (P3-02): StepGen #0, pin Direction (Output)
hm2/hm2_5i25.0: IO Pin 003 (P3-15): IOPort
hm2/hm2_5i25.0: IO Pin 004 (P3-03): StepGen #1, pin Step (Output)
hm2/hm2_5i25.0: IO Pin 005 (P3-16): PWMGen #0, pin Out0 (PWM or Up) (Output)
hm2/hm2_5i25.0: IO Pin 006 (P3-04): StepGen #1, pin Direction (Output)
hm2/hm2_5i25.0: IO Pin 007 (P3-17): StepGen #4, pin Step (Output)
hm2/hm2_5i25.0: IO Pin 008 (P3-05): StepGen #2, pin Step (Output)
hm2/hm2_5i25.0: IO Pin 009 (P3-06): StepGen #2, pin Direction (Output)
hm2/hm2_5i25.0: IO Pin 010 (P3-07): StepGen #3, pin Step (Output)
hm2/hm2_5i25.0: IO Pin 011 (P3-08): StepGen #3, pin Direction (Output)
hm2/hm2_5i25.0: IO Pin 012 (P3-09): IOPort
hm2/hm2_5i25.0: IO Pin 013 (P3-10): IOPort
hm2/hm2_5i25.0: IO Pin 014 (P3-11): IOPort
hm2/hm2_5i25.0: IO Pin 015 (P3-12): IOPort
hm2/hm2_5i25.0: IO Pin 016 (P3-13): IOPort
hm2/hm2_5i25.0: IO Pin 017 (P2-01): IOPort
hm2/hm2_5i25.0: IO Pin 018 (P2-14): IOPort
hm2/hm2_5i25.0: IO Pin 019 (P2-02): IOPort
hm2/hm2_5i25.0: IO Pin 020 (P2-15): IOPort
hm2/hm2_5i25.0: IO Pin 021 (P2-03): IOPort
hm2/hm2_5i25.0: IO Pin 022 (P2-16): IOPort
hm2/hm2_5i25.0: IO Pin 023 (P2-04): IOPort
hm2/hm2_5i25.0: IO Pin 024 (P2-17): IOPort
hm2/hm2_5i25.0: IO Pin 025 (P2-05): IOPort
hm2/hm2_5i25.0: IO Pin 026 (P2-06): IOPort
hm2/hm2_5i25.0: IO Pin 027 (P2-07): IOPort
hm2/hm2_5i25.0: IO Pin 028 (P2-08): IOPort
hm2/hm2_5i25.0: IO Pin 029 (P2-09): IOPort
hm2/hm2_5i25.0: IO Pin 030 (P2-10): IOPort
hm2/hm2_5i25.0: IO Pin 031 (P2-11): IOPort
hm2/hm2_5i25.0: IO Pin 032 (P2-12): IOPort
hm2/hm2_5i25.0: IO Pin 033 (P2-13): IOPort
hm2/hm2_5i25.0: registered
hm2_5i25.0: initialized AnyIO board at 0000:03:02.0
Starting TASK program: milltask
task pid=2455
Starting DISPLAY program: /home/operator/tmc/python/tormach_mill_ui.py
Setting tolerance to 0.000000
Setting tolerance to 0.050800
Setting naivecam tolerance to 0.000000
tormach_mill_ui.py arguments are ['/home/operator/tmc/python/tormach_mill_ui.py', '-ini', '/home/operator/tmc/configs/tormach_mill/tormach_1100-3.ini']
Using locale ('en_US', 'UTF-8')
msg_hello
2020-05-04 08:28:35.611605 | GUI thread id is 139810479392576 [/home/operator/v2.1.2/python/ui_common.py:468]
2020-05-04 08:28:35.695533 (+0:00:00.083928) | Material data imported [/home/operator/v2.1.2/python/ui_support.py:979]
Ini file is: <linuxcnc.ini object at 0x7f281b1c6990>
2020-05-04 08:28:35.711702 | Tooltips successfully loaded. [/home/operator/v2.1.2/python/tooltipmgr.py:295]
2020-05-04 08:28:35.838733 | Stepover data imported [/home/operator/v2.1.2/python/mill_fs.py:588]
2020-05-04 08:28:35.842832 (+0:00:00.004099) | Mill __init__ after initial status.poll() - tool in spindle is 0 [tormach_mill_ui.py:518]
2020-05-04 08:28:35.896191 (+0:00:00.053359) | UI version: v2.1.2 [/home/operator/v2.1.2/python/
```

```
ui_common.py:3614]
2020-05-04 08:28:36.141921 (+0:00:00.245730) | spindle type: 0 [tormach_mill_ui.py:1133]
2020-05-04 08:28:36.188242 (+0:00:00.046321) | Found engraving font: Bebas.ttf. [tormach_mill_ui.py:2141]
2020-05-04 08:28:36.194163 (+0:00:00.005921) | Found engraving font: FreeMono.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:28:36.199441 (+0:00:00.005278) | Found engraving font: FreeMonoBold.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:28:36.205580 (+0:00:00.006139) | Found engraving font: FreeMonoBoldOblique.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:28:36.211490 (+0:00:00.005910) | Found engraving font: FreeMonoOblique.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:28:36.216398 (+0:00:00.004908) | Found engraving font: FreeSans.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:28:36.220084 (+0:00:00.003686) | Found engraving font: FreeSansBold.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:28:36.224788 (+0:00:00.004704) | Found engraving font: FreeSansBoldOblique.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:28:36.229856 (+0:00:00.005068) | Found engraving font: FreeSansOblique.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:28:36.234280 (+0:00:00.004424) | Found engraving font: FreeSerif.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:28:36.238978 (+0:00:00.004698) | Found engraving font: FreeSerifBold.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:28:36.244109 (+0:00:00.005131) | Found engraving font: FreeSerifBoldItalic.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:28:36.248249 (+0:00:00.004140) | Found engraving font: FreeSerifItalic.ttf.
[tormach_mill_ui.py:2141]
2020-05-04 08:28:36.257389 (+0:00:00.009140) | Refreshing tool liststore due to linear scale change
[tormach_mill_ui.py:8983]
INFO application.dbusnode start 200 : - Publishing DBus service: com.tormach.Dxf2GCode
2020-05-04 08:28:38.641090 (+0:00:02.383701) | Refreshing tool liststore - complete.
[tormach_mill_ui.py:8994]
2020-05-04 08:28:38.652981 (+0:00:00.011891) | enable home axis 0, flag 1 [/home/operator/v2.1.2/python/
ui_common.py:3007]
2020-05-04 08:28:38.675264 (+0:00:00.022283) | enable home axis 1, flag 1 [/home/operator/v2.1.2/python/
ui_common.py:3007]
2020-05-04 08:28:38.697919 (+0:00:00.022655) | enable home axis 2, flag 1 [/home/operator/v2.1.2/python/
ui_common.py:3007]
2020-05-04 08:28:38.722204 (+0:00:00.024285) | no enc_door_open_max_rpm found in redis defaulting to 1000
[tormach_mill_ui.py:1677]
2020-05-04 08:28:38.722945 (+0:00:00.000741) | enclosure door open max rpm: 1000 [tormach_mill_ui.py:1680]
2020-05-04 08:28:39.191108 (+0:00:00.468163) | Mill __init__ complete - tool in spindle is 0
[tormach_mill_ui.py:1754]
2020-05-04 08:28:39.192050 (+0:00:00.000942) | screen resolution is now 1024 x 768
[tormach_mill_ui.py:9368]
2020-05-04 08:28:39.242102 (+0:00:00.050052) | caught attempt to change outside restricted directory: /
home/operator/gcode [/home/operator/v2.1.2/python/tormach_file_util.py:772]
2020-05-04 08:28:39.245543 (+0:00:00.003441) | forcing current directory to /media/operator [/home/
operator/v2.1.2/python/tormach_file_util.py:773]
2020-05-04 08:28:39.754038 (+0:00:00.508495) | LinuxCNC status.task_mode change was unknown is now
MODE_MANUAL [tormach_mill_ui.py:8359]
2020-05-04 08:28:39.754769 (+0:00:00.000731) | LinuxCNC interp_state change was unknown is now
INTERP_IDLE [tormach_mill_ui.py:8366]
2020-05-04 08:28:39.755310 (+0:00:00.000541) | status.task_state was unknown is now STATE_STOP
[tormach_mill_ui.py:8389]
2020-05-04 08:28:44.376361 (+0:00:04.621051) | CPU usage was 0.0, is now 28.9 [tormach_mill_ui.py:8397]
2020-05-04 08:28:44.883486 (+0:00:00.507125) | CPU usage was 28.9, is now 7.9 [tormach_mill_ui.py:8397]
2020-05-04 08:29:07.684498 (+0:00:22.801012) | USB device (Cruzer_Glide) was plugged in. 2020-05-04
08:29:07 [/home/operator/v2.1.2/python/ui_common.py:1925]
```