

gmoccapy XYZAB Function Evidence

Status: PASS
Job ID: xyzab-20260626214346-f4b4aa36
Report ID: report-xyzab-20260626214346-f4b4aa36
Target: http://127.0.0.1:36983/web-rtcp-5axis-sim-plan/app/index.html
Generated: 2026-06-26T21:43:46.310Z
Screenshots: /home/meswork/cnc_wams/qa/web-rtcp-5axis-site-test/output/gmoccapy-xyzab

Checks

Check	Status	Evidence
XYZAB profile selected	PASS	{ "machineProfile": "gmoccapy-xyzab", "coordinates": "XYZAB", "profileTcpCapable": false, "profileRtcpProof": false, "runState": "idle", "rtcpState": "off", "kinsType": "identity", "machine": { "powerOn": false, "taskState": "estop-reset", "mode": "manual", "allHomed": false, "interpState": "idle", "spindle": { "enabled": true, "direction": "forward", "rpm": 1600 }, "coolant": { "flood": true, "mist": false }, "taskPolicy": { "canRunAuto": false, "canRunAutoStrict": false, "iniLoaded": false, "machineFileStaged": false, "taskHalRuntimeReady": true }, "operatorMessage": "frame source fixture-ui-only" }
Reference profile blocks RTCP promotion	PASS	{ "machineProfile": "gmoccapy-xyzab", "coordinates": "XYZAB", "profileTcpCapable": false, "profileRtcpProof": false, "runState": "idle", "rtcpState": "off", "kinsType": "identity", "machine": { "powerOn": false, "taskState": "estop-reset", "mode": "manual", "allHomed": false, "interpState": "idle", "spindle": { "enabled": true, "direction": "forward", "rpm": 1600 }, "coolant": { "flood": true, "mist": false }, "taskPolicy": { "canRunAuto": false, "canRunAutoStrict": false, "iniLoaded": false, "machineFileStaged": false, "taskHalRuntimeReady": true }, "operatorMessage": "frame source fixture-ui-only" }
RUN blocked before power	PASS	run blocked: machine must be on
RUN blocked by reference evidence	PASS	run blocked: LinuxCNC INI not loaded
Core icons rendered	PASS	{ "estop": { "exists": true, "iconName": "main_switch_off", "iconVariant": "inactive", "buttonId": "btbn_estop", "active": false, "commandReady": null, "title": "Estop the machine / F1", "power": { "exists": true, "iconName": "power_on", "iconVariant": "active", "buttonId": "btbn_on", "active": true, "commandReady": null, "title": "Turn the machine on/off / F2", "mode-manual": { "exists": true, "iconName": "mode_manual_active", "iconVariant": "active", "buttonId": "rbt_manual", "active": true, "commandReady": null, "title": "Enter manual mode", "mode-auto": { "exists": true, "iconName": "mode_auto_inactive", "iconVariant": "inactive", "buttonId": "rbt_auto", "active": false, "commandReady": null, "title": "Enter auto mode", "mode-mdi": { "exists": true, "iconName": "mode_mdi_inactive", "iconVariant": "inactive", "buttonId": "rbt_mdi", "active": false, "commandReady": null, "title": "Enter MDI mode", "RUN": { "exists": true, "iconName": "play", "iconVariant": "inactive", "buttonId": "btn_run", "active": false, "commandReady": false, "title": "run blocked: switch to auto mode first", "STOP": { "exists": true, "iconName": "stop", "iconVariant": "inactive", "buttonId": "btn_stop", "active": false, "commandReady": true, "title": "Stop", "PAUSE": { "exists": true, "iconName": "pause", "iconVariant": "inactive", "buttonId": "btbn_pause", "active": false, "commandReady": false, "title": "pause blocked: task mode must be auto or MDI", "HOME": { "exists": true, "iconName": "ref_all", "iconVariant": "active", "buttonId": "btn_homing", "active": true, "commandReady": true, "title": "Home", "spindle-forward": { "exists": true, "iconName": "spindle_right", "iconVariant": "inactive", "buttonId": "rbt_forward", "active": false, "commandReady": true, "title": "Spindle forward", "spindle-stop": { "exists": true, "iconName": "spindle_stop_on", "iconVariant": "active", "buttonId": "rbt_stop", "active": true, "commandReady": true, "title": "Spindle stop", "spindle-reverse": { "exists": true, "iconName": "spindle_left", "iconVariant": "inactive", "buttonId": "rbt_reverse", "active": false, "commandReady": true, "title": "Spindle reverse", "toggle-flood": { "exists": true, "iconName": "coolant_flood_inactive", "iconVariant": "inactive", "buttonId": "btbn_flood", "active": false, "commandReady": false, "title": "Flood coolant", "toggle-mist": { "exists": true, "iconName": "coolant_mist_active", "iconVariant": "active", "buttonId": "btbn_mist", "active": true, "commandReady": true, "title": "Mist coolant", "view-x": { "exists": true, "iconName": "tool_axis_x", "iconVariant": "inactive", "buttonId": "rbt_view_x", "active": false, "commandReady": null, "title": "View X" } }
Spindle/coolant state updates	PASS	{ "machineProfile": "gmoccapy-xyzab", "coordinates": "XYZAB", "profileTcpCapable": false, "profileRtcpProof": false, "runState": "idle", "rtcpState": "off", "kinsType": "identity", "machine": { "powerOn": true, "taskState": "on", "mode": "manual", "allHomed": true, "interpState": "idle", "spindle": { "enabled": false, "direction": "stop", "rpm": 1600 }, "coolant": { "flood": false, "mist": true }, "taskPolicy": { "canRunAuto": false, "canRunAutoStrict": false, "iniLoaded": false, "machineFileStaged": false, "taskHalRuntimeReady": true }, "operatorMessage": "mist coolant toggled" }
NML command diagnostic	PASS	NML command: gmoccapy -> linuxcnc.command() -> NML emcCommand -> milltask
Web runtime diagnostic	PASS	button -> store.dispatch -> linuxcnc-task-policy -> runtime/status snapshot -> UI/Three.js
HAL postgui diagnostic	PASS	spindle-abs / spindle-at-speed / tooloffset-x / tooloffset-z / tool-change-loop
Screenshots are nonblank	PASS	01-loaded:0.7823, 02-profile-selected:0.7815, 03-run-blocked-power:0.7815, 04-run-blocked-reference-evidence:0.7815, 05-controls-active:0.7815, 06-hal-diagnostics:0.7815

Steps

01-loaded - Initial gmoccapy shell

Default shell loaded with icon registry and diagnostics.

Screenshot: /home/meswork/cnc_wams/qa/web-rtcp-5axis-site-test/output/gmoccapy-xyzab/01-loaded.png

State: { "machineProfile": "xyzac-trt", "coordinates": "XYZAC", "runState": "idle", "rtcpState": "on", "kinsType": "tcp-xyzac", "machine": { "powerOn": false, "taskState": "estop-reset", "mode": "manual", "allHomed": false, "interpState": "idle", "spindle": { "enabled": true, "direction": "forward", "rpm": 1600 }, "coolant": { "flood": true, "mist": false }, "taskPolicy": { "canRunAuto": false, "canRunAutoStrict": false, "iniLoaded": true, "machineFileStaged": true, "taskHalRuntimeReady": true }, "operatorMessage": "LinuxCNC task/HAL session ready /work/sim/axis/vismach/5axis/table-rotary-tilting/xyzac-trt/demos/boat-xyzac.ngc" }

02-profile-selected - gmoccapy XYZAB selected

Reference profile shows XYZAB/trivkins and disables TCP promotion.

Screenshot: /home/meswork/cnc_wams/qa/web-rtcp-5axis-site-test/output/gmoccapy-xyzab/02-profile-selected.png

State: { "machineProfile": "gmoccapy-xyzab", "coordinates": "XYZAB", "profileTcpCapable": false, "profileRtcpProof": false, "runState": "idle", "rtcpState": "off", "kinsType": "identity", "machine": { "powerOn": false, "taskState": "estop-reset", "mode": "manual", "allHomed": false, "interpState": "idle", "spindle": { "enabled": true, "direction": "forward", "rpm": 1600 }, "coolant": { "flood": true, "mist": false }, "taskPolicy": { "canRunAuto": false, "canRunAutoStrict": false, "iniLoaded": false, "machineFileStaged": false, "taskHalRuntimeReady": true }, "operatorMessage": "frame source fixture-ui-only" }

03-run-blocked-power - RUN blocked before power

RUN remains clickable but reports LinuxCNC/gmoccapy gate reason.

Screenshot: /home/meswork/cnc_wams/qa/web-rtcp-5axis-site-test/output/gmoccapy-xyzab/03-run-blocked-power.png

State: {"machineProfile": "gmoccapy-xyzab", "coordinates": "XYZAB", "profileTcpCapable": false, "profileRtcpProof": false, "runState": "idle", "rtcpState": "off", "kinsType": "identity", "machine": {"powerOn": false, "taskState": "estop-reset", "mode": "manual", "allHomed": false, "interpState": "idle"}, "spindle": {"enabled": true, "direction": "forward", "rpm": 1600, "coolant": {"flood": true, "mist": false}, "taskPolicy": {"canRunAuto": false, "canRunAutoStrict": false, "iniLoaded": false, "machineFileStaged": false, "taskHalRuntimeReady": true}, "operatorMessage": "run blocked: machine must be on"}}

04-run-blocked-reference-evidence - RUN blocked by reference evidence

XYZAB passes power/home/auto gates but remains blocked without complete native INI/machine-file/runtime evidence.

Screenshot: /home/meswork/cnc_wams/qa/web-rtcp-5axis-site-test/output/gmoccapy-xyzab/04-run-blocked-reference-evidence.png

State: {"machineProfile": "gmoccapy-xyzab", "coordinates": "XYZAB", "profileTcpCapable": false, "profileRtcpProof": false, "runState": "idle", "rtcpState": "off", "kinsType": "identity", "machine": {"powerOn": true, "taskState": "on", "mode": "auto", "allHomed": true, "interpState": "idle"}, "spindle": {"enabled": true, "direction": "forward", "rpm": 1600, "coolant": {"flood": true, "mist": false}, "taskPolicy": {"canRunAuto": true, "canRunAutoStrict": false, "iniLoaded": false, "machineFileStaged": false, "taskHalRuntimeReady": true}, "operatorMessage": "run blocked: LinuxCNC INI not loaded"}}

05-controls-active - Spindle and coolant controls

Spindle/coolant icons update through task policy guarded store actions.

Screenshot: /home/meswork/cnc_wams/qa/web-rtcp-5axis-site-test/output/gmoccapy-xyzab/05-controls-active.png

State: {"machineProfile": "gmoccapy-xyzab", "coordinates": "XYZAB", "profileTcpCapable": false, "profileRtcpProof": false, "runState": "idle", "rtcpState": "off", "kinsType": "identity", "machine": {"powerOn": true, "taskState": "on", "mode": "manual", "allHomed": true, "interpState": "idle"}, "spindle": {"enabled": false, "direction": "stop", "rpm": 1600, "coolant": {"flood": false, "mist": true}, "taskPolicy": {"canRunAuto": false, "canRunAutoStrict": false, "iniLoaded": false, "machineFileStaged": false, "taskHalRuntimeReady": true}, "operatorMessage": "mist coolant toggled"}}

06-hal-diagnostics - HAL and communication diagnostics

Info panel exposes native NML/HAL/postgui references and Web runtime boundary.

Screenshot: /home/meswork/cnc_wams/qa/web-rtcp-5axis-site-test/output/gmoccapy-xyzab/06-hal-diagnostics.png

State: {"machineProfile": "gmoccapy-xyzab", "coordinates": "XYZAB", "profileTcpCapable": false, "profileRtcpProof": false, "runState": "idle", "rtcpState": "off", "kinsType": "identity", "machine": {"powerOn": true, "taskState": "on", "mode": "manual", "allHomed": true, "interpState": "idle"}, "spindle": {"enabled": false, "direction": "stop", "rpm": 1600, "coolant": {"flood": false, "mist": true}, "taskPolicy": {"canRunAuto": false, "canRunAutoStrict": false, "iniLoaded": false, "machineFileStaged": false, "taskHalRuntimeReady": true}, "operatorMessage": "mist coolant toggled"}}