

PTL iNPU Release - 25'WW47.1, 32.0.100.4509 (UD48, PV+2)

Executive Summary

- Multiple bugs fixes and models optimizations
- Included support for Procyon-2.0 Models
- Included support for the latest CoPilot Features

Build Details

NPU Driver Manifest	https://releases.ti.intel.com/buildManifests/nightly/UD202548/Unified/2025.11.19_1000/build_manifest.json
Hw SI version	PTL-P, U, H
OV Package	https://af01p-igk.devtools.intel.com/ui/repos/tree/General/one-windows-local/Submissions/openvino/openvino_genai_windows_2025.4.0.Rc2_x86_64
OV Tools	https://storage.openvinotoolkit.org/repositories/openvino/packages/pre-release/2025.4.0.Rc2/
Packages	https://af01p-ir.devtools.intel.com/artifactory/ir-public-models-ir-local/ov-ir-por-models/20250618_npu_models_public_por_main_172741.tar.bz2 https://af01p-ir.devtools.intel.com/artifactory/ir-public-models-ir-local/ov-genai-models/releases/ov252rc4/VLM/

Release Validation

Link to the validation report: [NPU Validation Report](#)

releases.ti.intel.com/reports/pantherlake/NightlyRegressions/2025/2025.10.22/VPU_FW_REGRESSION/ci_tag_ud202544_vpu_rc_20251016_1600/PTL_UD202544_regression_-_Jenkins_-_VPU_FW_REGRESSION_-_2025.10.22_-_1530.html

Release WW47 PTL 4509, Validation, B4 Silicon	Pass	Fail	Total
Total	3663	100	3766
%	97.34%		

Fixed / Resolved / New Issues

id	title	Priority	Exposure	status
14026079035	[WW44-46WS][Samsung][PTL][GB6 Series]Win11 25H2 Missing NPU driver(v1004299) after ResetPC	P2-High	2-High	Complete
14026118109	[Lenovo Thinkpad][KunLun2.0][FVT][PTL][LCFC][HF][Win11]The unit occur empty data when test voiceprint mode.	P2-High	2-High	Complete
15018599248	[WW44-46WS][Lenovo][PTL][Kailash][FVT3] MEMC:MEMC not ready	P1-Stopper	2-High	Complete
EISW-191645	[GTA][PTL][LNL] ZE_RESULT_ERROR_INVALID_ARGUMENT, code 0x78000004 in MultiprocessingApp (PSO1)	P1-Stopper	3-Medium	Complete
EISW-192824	[LNL][PTL] Investigate Accuracy regression for model Model_PSV_v3_4_0_qdq	P1-Stopper	2-High	Complete
EISW-191588	Inaccuracy only seen with the 16bit PhiLoRADraft scenario and only seen on Intel NPUs	P1-Stopper	2-High	Complete
EISW-186558	[PTL][LNL] Accuracy regression for model PSG0	P1-Stopper	2-High	Complete
EISW-188485	[Lenovo][PTL][NPU]Model CLIB-FIQA_R50 long compile time(>17 mins)	P1-Stopper	2-High	Closed

PSIRT Fixes

id	title	Priority	Exposure	status
EISW-189587	[PSIRT] PTK0006036: [Intel® NPU Driver] Potential incorrect default permissions in installer could lead to DoS	P1-Stopper	2-High	Closed

Known Issues

id	title	Priority	Exposure	status
18043287242	[PTL]- PV RC1 - driver 4294 - ZE_RESULT_ERROR_DEVICE_LOST - page fault	P4-Low	4-Low	In Progress
22021687253	[900_MAA] Hardware DRIPS Blocker NPU Causes 70% DRIPS Promoted to Microsoft, 14026466946 - [900_MAA][AI] Hardware DRIPS Blocker NPU Causes 70% DRIPS [WinAI][CP+][Recall]	P3-medium	3-medium	In Progress
15018632102	[WinAI][MEP] NPU loading hits 100% when collecting the Neural Processing trace with the MEP effect enabled	P2-High	2-High	In Progress

KPI Measurements

KPI for RQC	PTL U9 25W	Measurement, 4403, Main	Delta to KPI
NPU set for Fmax, PLL@4100MHz			
Memory operating at 8533Mhz			
QDF:B0 - Q9ET			
Procyon AI Inference - OpenVINO™ ML Engine NPU Integer – higher is better	1630 - 1730	2091	20.87%
Llama3 – 8B (NPU) First token latency (milliseconds) – lower is better	1610 - 1700	1075.63	33.19%
Llama3 – 8B (NPU) Second token latency (milliseconds) – lower is better	67 - 73	53.43	20.25%
Stable Diffusion 1.5 (GIMP, A8W8, NPU, Best Power Efficiency) – lower is better	6.2 - 6.6	4.06	34.52%

Wiki Release Notes

<https://wiki.ith.intel.com/spaces/MovidiusPublic/pages/4447716936/25ww46+UD48+RC2+32.0.100.4507+32.0.202.478?src=contextnavpagetreemode>

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