

NPU Unified Driver v2540 Release Notes [UD2024.24]

Wednesday 1 May 2024 14:13

Executive Summary

- Support for OpenVino 2024.1
- Enable Whisper Model on DML
- Dropped support for dKMB
- Support Windows 11 24H2 (Production Signed)

Build Details

Ingredient	Versions and Links
Build Details	24ww22 UD2024.24
MCDM VPU driver	32.0.100.2540
VPUFW	ci tag ud202424 vpu rc 20240529 1025
OpenVINO VPUx	ci tag ud202424 vpux rc 20240529 1100
OpenVINO VPUx Tools	ci tag ud202424 vpux rc 20240529 1100
Public NN Models	https://wiki.ith.intel.com/pages/viewpage.action?pageId=3584465156#id-24ww22UD2024.2432.0.100.2540-ModelsVerification
DML Models	https://ubit-artifactory-or.intel.com/artifactory/movidius-vpu-or-local/Archive/Automation/Binaries/DML/Models/
OWR Release Links	

Release Validation

Test Case Summary

QAC

Full Validation report:

MTL:

SKU	VPUiP Validation report
MTL-H682	http://releases.ti.intel.com/reports/meteorlake/NightlyRegressions/2024/2024.05.30/VPU_FW_REGRESSION/ci_tag_ud202424_vpu_rc_20240529_1025/MTL_UD202424_regression_-_VPU_FW_REGRESSION_-_2024.05.30_-_1911.html
MTL-P281	
MTL-U282	
ARL Hx	http://releases.ti.intel.com/reports/arrowlake/NightlyRegressions/2024/2024.05.30/VPU_FW_REGRESSION/ci_tag_ud202424_vpu_rc_20240529_1025/ARL_UD202424_regression_-_VPU_FW_REGRESSION_-_2024.05.30_-_1911.html
ARL H	
ARL S	

Config Details

REFERENCE HARDWARE CONFIGURATION:

Host Info (wiki)					
RVP:	RPL P LP5 T4 RVP FAB1 BRD	MTL-H682 & P681	MTL-U282	ARL-S	ARL -Hx
MCP:	RPL P CPU J02	C0			
BKC:	RPL-P-SV2-CORP-23.25.3.160	MTL-H-CORP-RST-24.12.3.1 16	MTL-U282-9W-CORP-RST-24.10.2.2 64	ARL-S-MTP-S-SV3-CORP-24.08.3.187	ARL-SBGA-MTP-S-SV3-CORP-24.13.2.213
Additional info:	Windows 11 22H2 (OS Build 22621.2134)				
Reworks:	-				
	RPL_PR01_J0B1-XXXADPP_RPSF_SES5_01F70498_CVF_2023MM/23_3_01_kin	MTLPSFW11.R00.4053.D83.2403190425	MTLMFW11.R00.3471.D92.2402260921	MTLSFW11.R00.4105.D82.2403091735	MTLSFW11.R00.4105.D82.2403091735

BIOS settings:	2023VWV23.5.01.D11				
VPU hardware:	FAB-C				

KNOWN AND/OR NEW ISSUES:

MTL:

Key	Summary	Priority	Status
EISW-126783	Driver rejects all strategies for PADDING1 Metacommand in Adobe AudioTagger ONNX model	P1-Stopper	Open
EISW-126782	Driver rejects all strategies for ELEMENT_WISE_CLIP1 Metacommand in Adobe AudioTagger ONNX model	P1-Stopper	Open
EISW-125637	Adobe Model Run Crashing on CAGP. Needs inputs from MSFT	P1-Stopper	Open
EISW-125252	CopyZeroPadding Driver exception more than 1 dim padding	P1-Stopper	Verified
EISW-123526	Adobe AudioTagger Convolution MC incorrect stride alignment for output tensor before Create	P1-Stopper	Verified
EISW-122699	CastMC returns 0 in PadMax even for NHWC, cause incompatibility with 16 aligned C output OP	P1-Stopper	Verified
EISW-121241	WebNN NPU samples are not working	P1-Stopper	Open
EISW-120357	[ARL-Hx][SV3][AI][BKC]MEP first frame to video preview has high latency than Expected behavior approx 7Sec	P1-Stopper	Verified
EISW-118845	Driver exception in BuildReusableCommandList	P1-Stopper	Verified
EISW-117097	[MTL][PR] PR_CLIENT MTL_VAL_RUN_FUNCTIONAL_WINDOWS_SECURE fails with drivers newer than 32.0.101.2265	P1-Stopper	Open

Change logs:

- **FW (MTL):** https://github.com/intel-innersource/firmware.vpu.client/releases/tag/ci_tag_ud202424_vpu_rc_20240529_1025
- **VPUX:** https://github.com/intel-innersource/applications.ai.vpu-accelerators.vpux-plugin/releases/tag/ci_tag_ud202424_vpux_rc_20240529_1100
- **Driver:** <https://github.com/intel-innersource/drivers.vpu.windows.mcdm/releases/tag/32.0.100.2540>