

NPU Unified Driver[UD2024.12] v2267 Release Notes

Thursday 21 March 2024 10:05

Executive Summary

Build Details

| Ingredient | Versions and Links |
|---------------------|---|
| Build Details | 24WW12 UD v2267 |
| MCDM VPU driver | 32.0.100.2267 |
| VPUFW | MTL - ci tag ud202412 vpu rc 20240229 2101 dKMB - ci tag dkmb vpu rc 20240308 2103 |
| OpenVINO VPUx | ci tag ud202412 vpu rc 20240312 2102 |
| OpenVINO VPUx Tools | ci tag ud202412 vpu rc 20240312 2102 |
| Public NN Models | |
| DML Models | |
| OWR Release Links | NPU driver: OpenVINO: |

Release Validation

Test Case Summary

QAC.xml

Full Validation report:

MTL:
http://releases.ti.intel.com/reports/meteorlake/NightlyRegressions/2024/2024.03.12/VPU_FW_REGRESSION/ci_tag_ud202412_vpu_rc_20240229_2101/MTL_UD202412_regression-VPU_FW_REGRESSION-2024.03.12-2102.html

dKMB:
http://releases.ti.intel.com/reports/DiscreteKeemBay/NightlyRegressions/2024/2024.03.12/VPU_FW_REGRESSION/ci_tag_ud202408_vpu_rc_20240213_2102/dKMB_ud202412_regression-VPU_FW_REGRESSION-2024.03.12-2102.html

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-24.09.4.365 | MTL-U282-9W-CORP-RST-23.51.5.304 | ARL-S-MTP-S-SV3-CORP-24.08.3.187 | ARL-SBGA-MTP-S-SV3-CORP-24.11.4.87 |
| Additional info: | Windows 11 22H2 (OS Build 22621.2134) | | | | |
| Reworks: | - | | | | |
| | RPL_PR01_J0B1-XXXADPP_RPSF_SES F 04F70400_04F70400 | MTLFWI1.R 00.3471.D92. 0402000004 | MTLMFWI1.R 00.3471.D83. 0402040010 | MTLSFWI1.R 00.4052.D81. 0402040004 | MTLSFWI1.R 0.4105.D82.24 03004735 |

| | | | | | |
|----------------|----------------------------------|------------|------------|------------|----------|
| BIOS settings: | 5_01F70498_CVF_2023WW23.3.01.bin | 2402260921 | 2312140812 | 2401311921 | 03091735 |
| VPU hardware: | FAB-C | | | | |

KNOWN AND/OR NEW ISSUES:

MTL:

| Key | Summary | Priority | Status | Components |
|-----------------------------|---|-------------|-------------|------------|
| EISW-116919 | Driver exception in TryCreateAveragePool MC | P1- Stopper | OPEN | |
| EISW-116918 | Driver does not return Abs in supported Metacommand GUID | P1- Stopper | OPEN | |
| EISW-116054 | [MTL][LNL][PTL] eTest ZE_RESULT_ERROR_INVALID_ARGUMENT - fatal error in eTests::level_zero::graph_wrap per<struct zeTestFixture.1.1>::create_from_model | P1- Stopper | IN PROGRESS | |
| EISW-114512 | [MTL][CONFIG_1] ~25% performance drop on MSFT models with benchmark app | P1- Stopper | OPEN | |
| EISW-108393 | IE-MDK smoke OVClassBasicTestP test fails if run on release pipeline | P1- Stopper | IN PROGRESS | |
| EISW-97997 | Memory usage is higher than estimation when run Benchmark app on NPU for stable diffusion model | P1- Stopper | VERIFIED | |

dKMB:

| Key | Summary | Priority | Status | Components |
|-----------------------------|---|-----------|-----------|------------|
| EISW-77455 | [dKMB][IRv11] Performance drop for xml "ie" cases | P3-Medium | IN REVIEW | |
| EISW-116835 | [dKMB][CS] Board failed to enter Connected Standby | P3-Medium | OPEN | |
| EISW-116839 | [dKMB][CB] Board fails to enter expected power state during specified timeout | P3-Medium | OPEN | |
| EISW-117337 | [dKMB][WR] [ERROR] RVP didn't boot properly after timeout | P3-Medium | OPEN | |
| EISW-113018 | [dKMB][Security] Page fault test fails to trigger Engine Reset | P2- High | OPEN | |
| EISW-111612 | [dKMB] Performance IR with regression models on npudriver-31.0.100.2076 | P3-Medium | OPEN | |