

Edge Software Device Qualification

Edge Software Device Qualification (ESDQ) is a complimentary tool provided by the ESH program that can be run by the customer in order to verify their Hardware/platform compatibility for the ESH recipe that is of interest. It is a CLI tool, separate from edgsoftware CLI that will be installed at the customer target system along with the recipe, if the customer opts from the ESH landing page. The tool's test report will be available in html and pdf format which can then be emailed to the ESH support team @ eshsupport@intel.com for any debug & support.

Summary

	Property	Value
0	ESDQ Version	6.0
1	Execution Timestamp UTC	2022-05-27 04:09:56
2	Duration	0:21:30
3	Number of test category	3
4	Test Categories	'SysInfo' 'Vision_Test_Module' 'VATS_Test_Module'

SystemInfo

	System Category	Property	Value
0	SOFTWARE INFO	OS version	Ubuntu 20.04.4 LTS
1	SOFTWARE INFO	Kernel	5.13.0-44-generic
2	HARDWARE INFO	Device Manufacturer	Default string
3	HARDWARE INFO	Hardware Architecture	x86_64

	System Category	Property	Value
4	HARDWARE INFO	Processor	Intel Atom(R) x6425E Processor @ 2.00GHz
5	HARDWARE INFO	GPU	Intel Corporation
6	HARDWARE INFO	Memory size	15Gi
7	HDD Configurations	Model	ATA WARIS SSD 128GB (scsi)
8	HDD Configurations	Disk /dev/sda	124GB
9	HDD Configurations	Sector size (logical/physical)	512B/512B
10	HDD Configurations	Partition Table	gpt
11	HDD Configurations	Disk Flags Header	Number Start End Size File system Name Flags
12	HDD Configurations	Disk Flags	1 1049kB 538MB 537MB fat32 EFI System Partition boot esp
13	HDD Configurations	Disk Flags	2 538MB 124GB 123GB ext4
14	HDD Configurations	Model	MMC DG4032 (sd/mmc)
15	HDD Configurations	Disk /dev/mmcblk0	31.3GB
16	HDD Configurations	Sector size (logical/physical)	512B/512B
17	HDD Configurations	Partition Table	gpt
18	HDD Configurations	Disk Flags Header	Number Start End Size File system Name Flags
19	HDD Configurations	Disk Flags	1 1049kB 31.3GB 31.3GB ext4
20	HDD Configurations	Model	Generic SD/MMC Storage Card (sd/mmc)
21	HDD Configurations	Disk /dev/mmcblk0boot0	4194kB
22	HDD Configurations	Sector size (logical/physical)	512B/512B
23	HDD Configurations	Partition Table	unknown
24	HDD Configurations	Model	Generic SD/MMC Storage Card (sd/mmc)
25	HDD Configurations	Disk /dev/mmcblk0boot1	4194kB
26	HDD Configurations	Sector size (logical/physical)	512B/512B
27	HDD Configurations	Partition Table	unknown

	System Category	Property	Value
28	HARDWARE ACCELERATOR	VPU	2 Intel® Movidius™ Visual Processing Unit
29	HARDWARE ACCELERATOR	FPGA	0

ModulesInfo

	Installed Module	Status
0	K3s_Lightweight_Kubernetes	SUCCESS
1	Intel_Distribution_of_OpenVINO_toolkit_2021_4_2_Runtime	SUCCESS
2	Intel_Deep_Learning_Streamer	SUCCESS
3	Docker_Community_Edition_CE	SUCCESS
4	Intel_Distribution_of_OpenVINO_toolkit_2021_4_2_in_a_Container	SUCCESS
5	Docker_Compose	SUCCESS
6	Edgex_Foundry	SUCCESS
7	RI_MultiCamera_Social_Distancing	SUCCESS
8	esdq	SUCCESS

Test Suites

[Vision_Test_Module](#)

	ModuleName	Test CaseName	SampleProgram	Status
0	media_sdk	MSDK1	Mediasdk_sample_decode with h264	Pass
1	media_sdk	MSDK2	mediasdk_sample_multi_transcode with h264 and mpeg2	Pass
2	media_sdk	MSDK3	mediasdk_set_commands with h264 mixed model	Pass

	ModuleName	Test CaseName	SampleProgram	Status
3	media_sdk	MSDK4	mediasdk_set_commands with h265 mixed model	Pass
4	media_sdk	MSDK5	mediasdk_sample_encode with h265	Pass
5	media_sdk	MSDK6	mediasdk_sample_vpp with sw	Pass
6	aws_greengrass	AWS1	aws_hello_world_sample	Pass
7	k3s	K3S1	k3s_sample	Pass
8	openvino	CPU1	hello_reshape_ssd with CPU	Pass
9	openvino	CPU2	style_transfer_sample_python with CPU	Pass
10	openvino	CPU3	object_detection_demo_ssd_async CPU	Pass
11	openvino	CPU4	object_detection_demo_python with CPU	Pass
12	openvino	GPU1	hello_reshape_ssd with GPU	Pass
13	openvino	GPU2	style_transfer_sample_python with GPU	Pass
14	openvino	GPU3	object_detection_demo_ssd_async GPU	Pass
15	openvino	GPU4	run_tc_object_detection_demo_ssd_python with GPU	Pass
16	openvino	HDDL1	hello_reshape_ssd with HDDL	Pass
17	openvino	HDDL2	style_transfer_sample_python with HDDL	Pass
18	openvino	HDDL3	object_detection_demo_ssd_async HDDL	Pass
19	openvino	HDDL4	object_detection_demo_ssd_async_python with HDDL	Pass

[VATS_Test_Module](#)

	Test ID	Status	Iterations	Pass Rate	Start Time	End Time	Duration	Host Ave CPU (%)	Host Max CPU (%)	Host Ave Memory (%)	Host Max Memory (%)
0	firmware_loading_time	50% Pass	2	50%	2022-05-27-12:18:14	2022-05-27-12:19:21	1min 6s	66.6	66.6	0.0	1.0

	Test ID	Status	Iterations	Pass Rate	Start Time	End Time	Duration	Host Ave CPU (%)	Host Max CPU (%)	Host Ave Memory (%)	Host Max Memory (%)
1	reset_1	Pass	1	100%	2022-05-27-12:19:22	2022-05-27-12:19:25	3s	0.0	0.0	0.0	0.0
2	hardware_ping	Fail	1	0%	2022-05-27-12:19:26	2022-05-27-12:20:30	1min 3s	0.1	2.0	0.0	0.1
3	io_ping_test	Pass	1	100%	2022-05-27-12:20:31	2022-05-27-12:20:34	3s	0.0	0.0	0.1	0.1
4	performance_alexnet	Pass	1	100%	2022-05-27-12:20:35	2022-05-27-12:21:41	1min 6s	5.6	51.3	0.0	1.1
5	performance_densenet-121	Pass	1	100%	2022-05-27-12:21:42	2022-05-27-12:22:49	1min 6s	4.0	24.0	0.0	0.5
6	performance_googlenet-v1	Pass	1	100%	2022-05-27-12:22:50	2022-05-27-12:23:54	1min 3s	3.2	15.6	0.5	0.5
7	performance_mobilenet-ssd	Pass	1	100%	2022-05-27-12:23:55	2022-05-27-12:25:01	1min 6s	4.3	27.6	0.0	0.5
8	performance_mobilenet-v1-1.0-224	Pass	1	100%	2022-05-27-12:25:02	2022-05-27-12:26:05	1min 3s	3.4	19.0	0.4	0.4
9	performance_mobilenet-v2	Pass	1	100%	2022-05-27-12:26:07	2022-05-27-12:27:13	1min 6s	4.6	33.0	0.0	0.4
10	performance_squeezenet1.1	Pass	1	100%	2022-05-27-12:27:14	2022-05-27-12:28:17	1min 3s	5.9	12.0	0.2	0.2
11	performance_resnet-50-pytorch	Pass	1	100%	2022-05-27-12:28:18	2022-05-27-12:29:25	1min 6s	3.6	28.3	0.0	1.1
12	thermal_test	Pass	1	100%	2022-05-27-12:29:26	Fri May 27 12:31:21 2022	1min 54s	0.8	28.0	0.7	0.7