

## MedMNIST-EdgeAI v2 — Phase-2 OCT2017

2025-10-29 23:09:01

Phase-2 OCT2017 consolidated evidence

Teacher dir: D:\MedMNIST-EdgeAIv2\reports\phase2\_oct2017\teacher\_resnet50

Student dir: D:\MedMNIST-EdgeAIv2\reports\phase2\_oct2017\student\_effb0

Student dir: D:\MedMNIST-EdgeAIv2\reports\phase2\_oct2017\student\_mbv2

Student dir: D:\MedMNIST-EdgeAIv2\reports\phase2\_oct2017\student\_resnet18

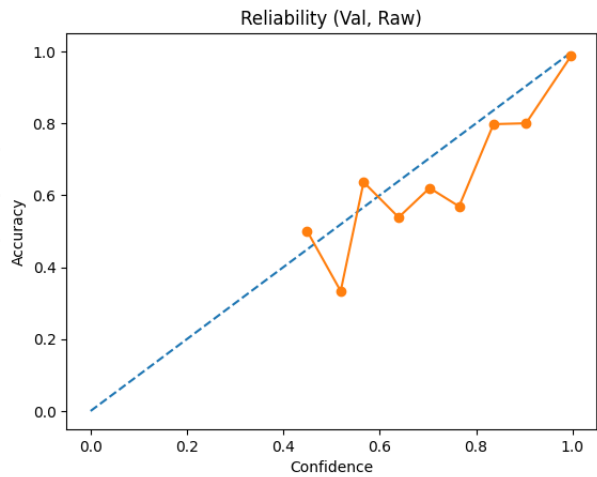


# Teacher — Metrics

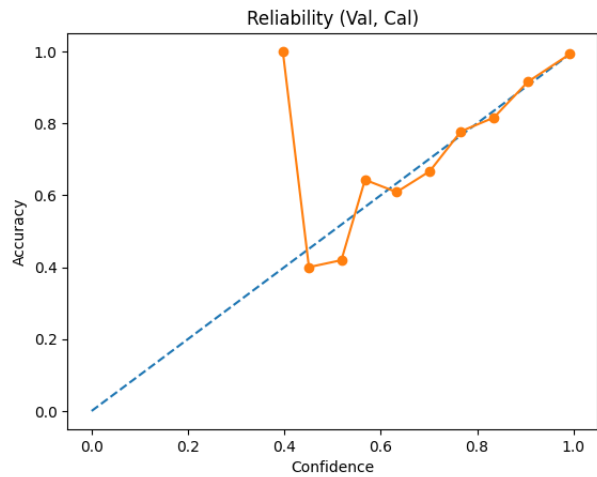
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Dir: D:\MedMNIST-EdgeAlv2\reports\phase2\_oct2017\teacher\_resnet50  
Val Acc: 0.9726  
Val Loss: 0.0992  
Test Acc: 0.9969  
Test Loss: 0.0120

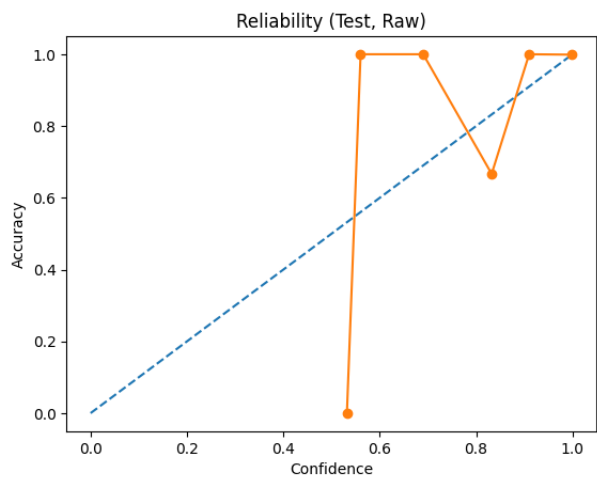
Temp (T): 1.4916



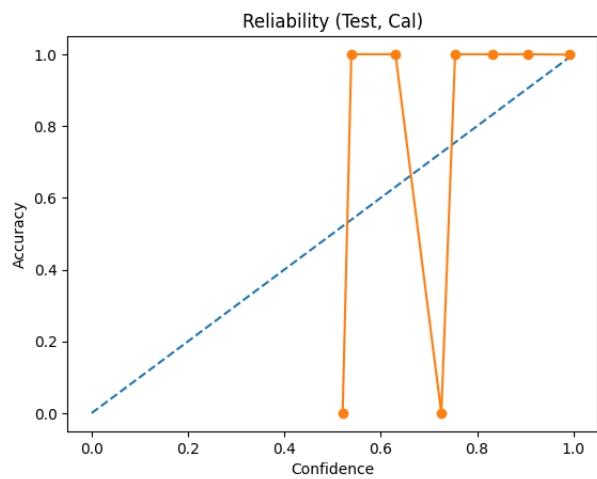
Val Reliability (Cal)



Test Reliability (Raw)



Test Reliability (Cal)



corruption	level	acc	nll	ece	brier	n
gauss	0.1000	0.9680	0.0956	0.0121	0.0510	968
gauss	0.2000	0.5207	3.6345	0.3925	0.8268	968
gauss	0.3000	0.2521	14.9194	0.6888	1.4942	968
jpeg	90	0.9959	0.0119	0.0055	0.0058	968
jpeg	70	0.9979	0.0086	0.0045	0.0037	968
jpeg	50	0.9969	0.0134	0.0069	0.0059	968
contrast	0.8000	0.9990	0.0082	0.0059	0.0030	968
contrast	0.6000	0.9959	0.0155	0.0088	0.0064	968

arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
resnet50	1	cpu	57.85964988172044	49.90595006383952	625.26866011274978	780
resnet50	2	cpu	88.47135002724826	30.091497907495	0.45860066078590	590
resnet50	4	cpu	147.37834990955843	3.66858492139723	73.95496004493907	907

arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
resnet50	1	cuda	11.928575992584229	3.244972229004	35.1378965377867	1.17431640625
resnet50	2	cuda	11.592495918273929	3.4410848617553	38.2010903358455	1.6806640625
resnet50	4	cuda	11.149824142456955	3.4633569717407	38.0608322620391	1.9931640625
resnet50	8	cuda	16.70502471923826	4.2559881210327	37.17365751266475	1.0556640625

arch	param_bytes	param_mib	img_size	batch	peak_cuda_mib
resnet50	94064912	89.70729064941406	224	1	110.39501953125

# Student — student\_effb0 — Metrics

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Dir: D:\MedMNIST-EdgeAlv2\reports\phase2\_oct2017\student\_effb0

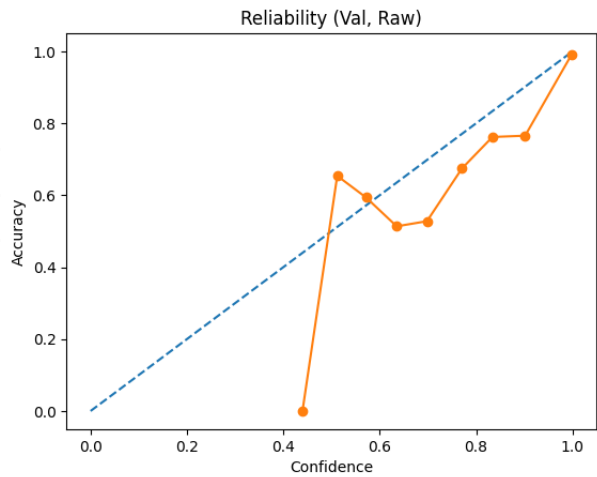
Val Acc: 0.9760

Val Loss: 0.0846

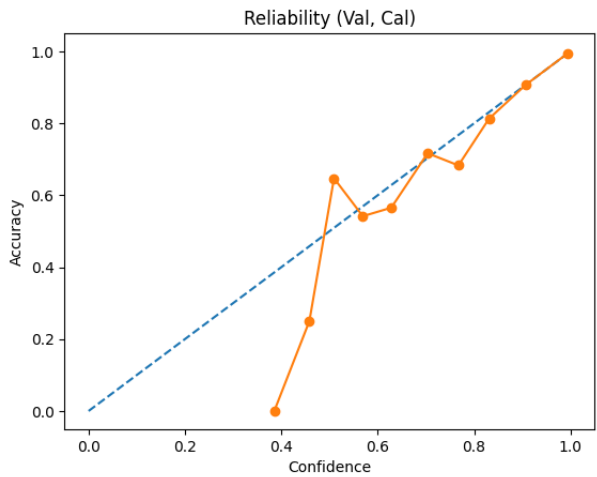
Test Acc: 0.9990

Test Loss: 0.0082

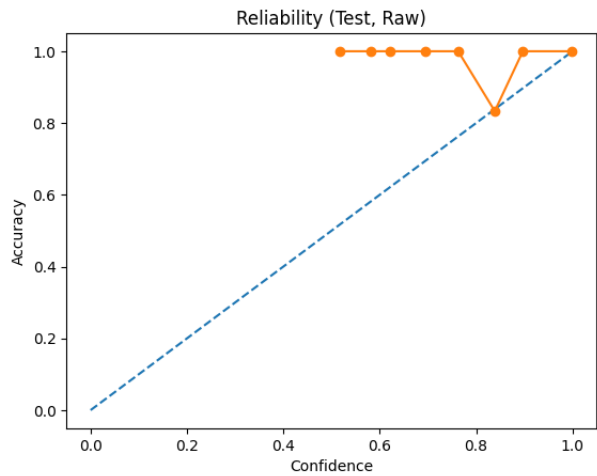
Temp (T): 1.4478



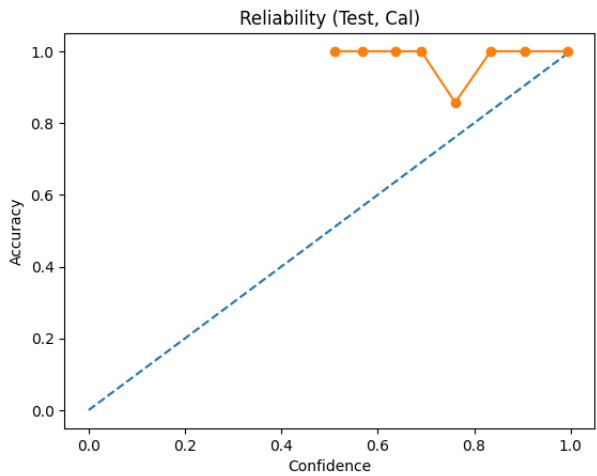
Val Reliability (Cal)



Test Reliability (Raw)



Test Reliability (Cal)





corruption	level	acc	nll	ece	brier	n
gauss	0.1000	0.2521	2.5059	0.5183	1.1556	968
gauss	0.2000	0.2428	12.5500	0.7094	1.4546	968
gauss	0.3000	0.2500	19.3147	0.0723	1.4999	968
jpeg	90	0.9979	0.0087	0.0053	0.0038	968
jpeg	70	1	0.0078	0.0068	0.0030	968
jpeg	50	0.9979	0.0098	0.0054	0.0045	968
contrast	0.8000	0.9969	0.0087	0.0073	0.0037	968
contrast	0.6000	0.9959	0.0133	0.0066	0.0063	968

Student — student\_effb0 — Efficiency (CPU latency)

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arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
efficientnet_b0	1	cpu	31.402099994011293406890075188335.3734298492781080			
efficientnet_b0	2	cpu	51.300300052389844.274355215020466.819410119205710			
efficientnet_b0	4	cpu	67.286549950949855.85018501151383.6817848370411050			

Student — student\_effb0 — Efficiency (GPU latency)

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arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
efficientnet_b0	1	cuda	17.36297607421875	15.352355098724365	39431495666503	0.09814453125
efficientnet_b0	2	cuda	17.319503784179688	16.79048490524292	78881826400756	7779296875
efficientnet_b0	4	cuda	17.459584236145021	19.0643310546825	79623680114746	880859375
efficientnet_b0	8	cuda	17.027423858642578	16.540298461924	25301103591969	951171875

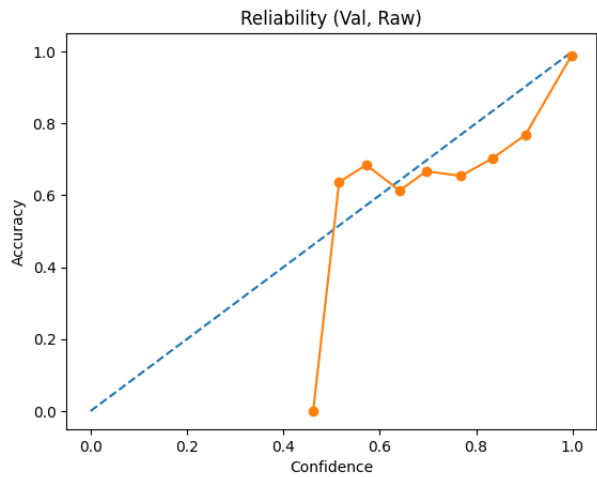
arch	param_bytes	param_mib	img_size	batch	peak_cuda_mib
efficientnet_b0	16050688	15.30712890625	224	1	35.1962890625

Student — student\_mbv2 — Metrics

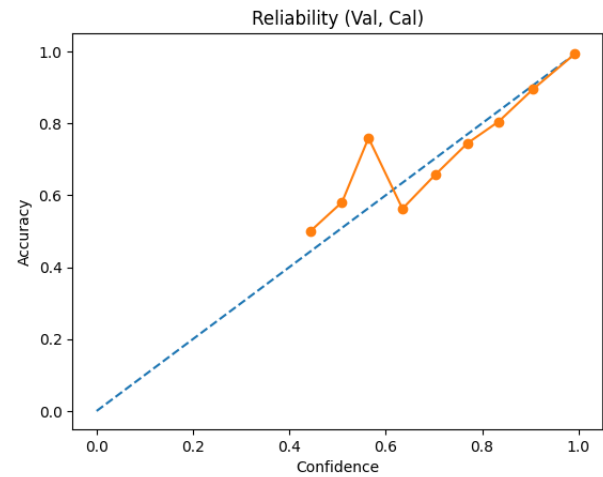
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Dir: D:\MedMNIST-EdgeAlv2\reports\phase2\_oct2017\student\_mbv2  
Val Acc: 0.9747  
Val Loss: 0.0964  
Test Acc: 0.9979  
Test Loss: 0.0072

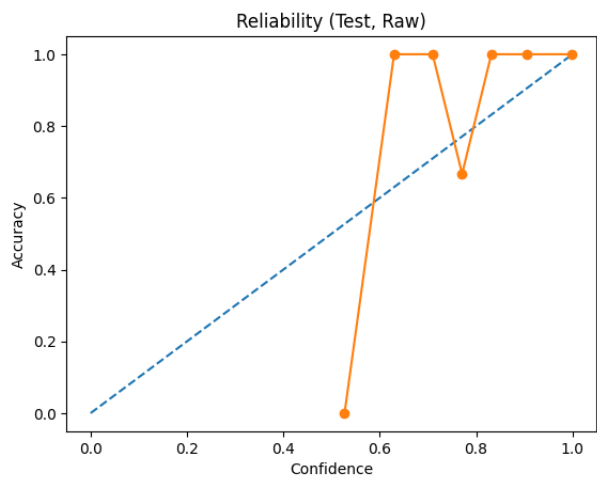
Temp (T): 1.5151



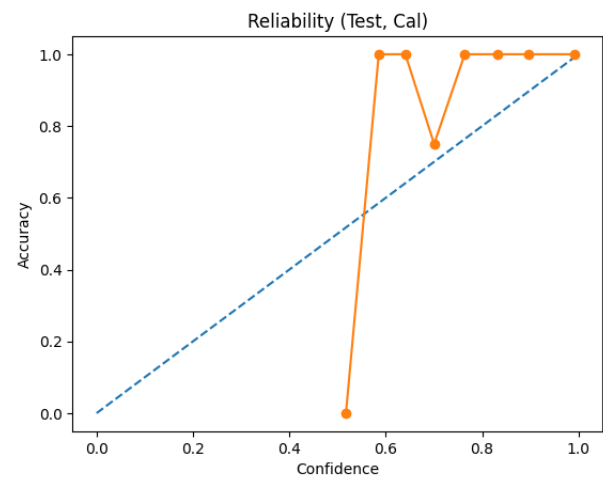
Val Reliability (Cal)



Test Reliability (Raw)



Test Reliability (Cal)



corruption	level	acc	nll	ece	brier	n
gauss	0.1000	0.9876	0.0548	0.0070	0.0240	968
gauss	0.2000	0.8409	0.6615	0.1064	0.2693	968
gauss	0.3000	0.3079	5.7678	0.6704	1.3466	968
jpeg	90	0.9990	0.0069	0.0041	0.0028	968
jpeg	70	0.9979	0.0077	0.0054	0.0033	968
jpeg	50	0.9979	0.0089	0.0040	0.0039	968
contrast	0.8000	0.9969	0.0091	0.0059	0.0040	968
contrast	0.6000	0.9928	0.0198	0.0104	0.0108	968

Student — student\_mbv2 — Efficiency (CPU latency)

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arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
mobilenet_v2	1	cpu	20.246550091542364	176639988087308	2137449150905.0	
mobilenet_v2	2	cpu	38.82689983583987	357779836747495	54105131700635	
mobilenet_v2	4	cpu	52.45455005206158	712014897726576	485954937990755	

arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
mobilenet_v2	1	cuda	11.1037282943726552	1.13823795318614	1.1293282985682253	3935546875
mobilenet_v2	2	cuda	11.28460788726807636	1.1576008796692	1.90421428680428	9443359375
mobilenet_v2	4	cuda	11.4815359115605596	1.8051218986516	2.233777618408205	458984375
mobilenet_v2	8	cuda	10.8092961311340352	1.3769688606262	1.051481676101622	2490234375



arch	param_bytes	param_mib	img_size	batch	peak_cuda_mib
mobilenet_v2	8915984	8.5029444946289062	224	1	28.36328125

Dir: D:\MedMNIST-EdgeAlv2\reports\phase2\_oct2017\student\_resnet18

Val Acc: 0.9741

Val Loss: 0.0969

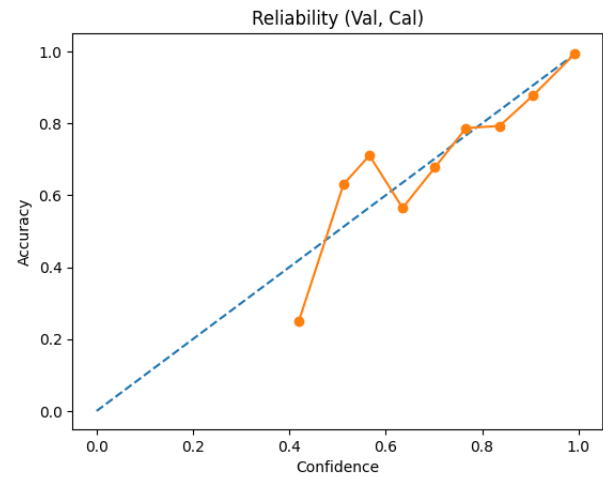
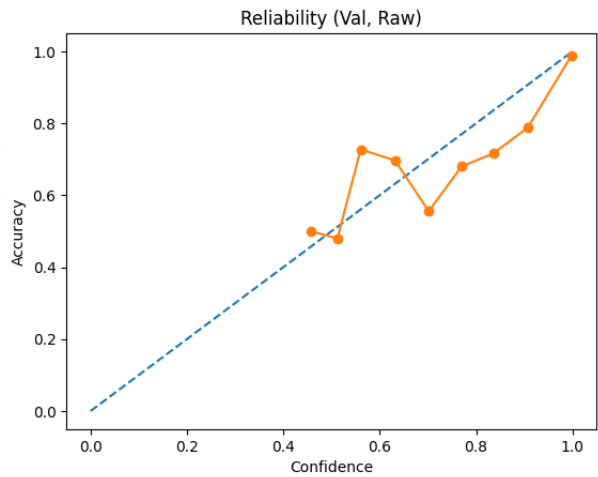
Test Acc: 0.9969

Test Loss: 0.0085

Test Reliability (Raw)

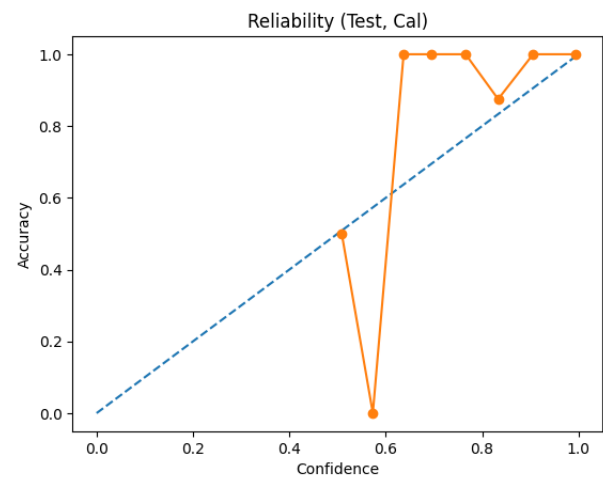
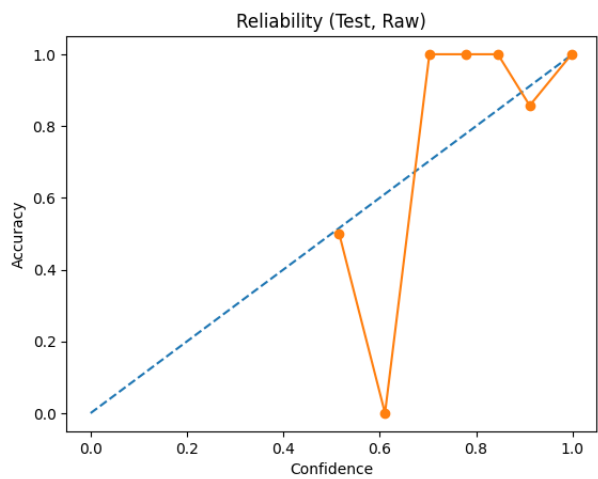
Val Reliability (Cal)

Temp (T): 1.5097



Test Reliability (Raw)

Test Reliability (Cal)



corruption	level	acc	nll	ece	brier	n
gauss	0.1000	0.9886	0.0205	0.0092	0.0124	968
gauss	0.2000	0.8554	0.5630	0.0955	0.2365	968
gauss	0.3000	0.3874	3.4996	0.5384	1.1122	968
jpeg	90	0.9959	0.0085	0.0048	0.0045	968
jpeg	70	0.9990	0.0073	0.0051	0.0032	968
jpeg	50	0.9979	0.0086	0.0042	0.0040	968
contrast	0.8000	0.9990	0.0094	0.0049	0.0040	968
contrast	0.6000	0.9917	0.0220	0.0026	0.0124	968

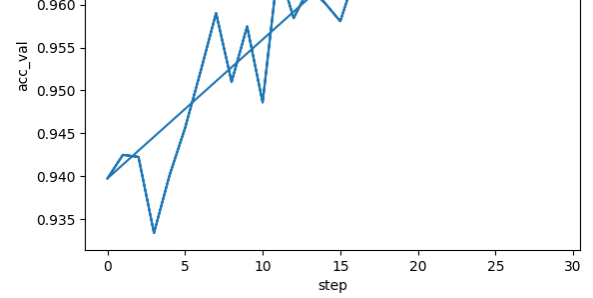
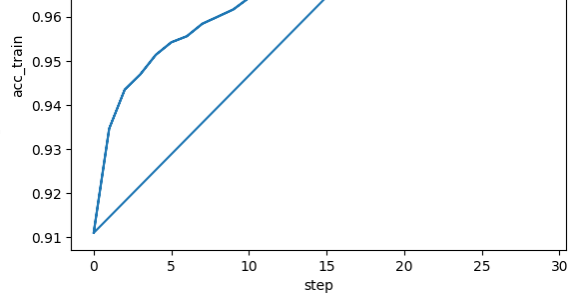
arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
resnet18	1	cpu	25.12264996767024	17.5394815392762	204014988616010	
resnet18	2	cpu	37.29220002423975	30.04759997688235	879169838037835	
resnet18	4	cpu	60.20434992387858	62.649496411962	959384988062034	

Student — student\_resnet18 — Efficiency (GPU latency)

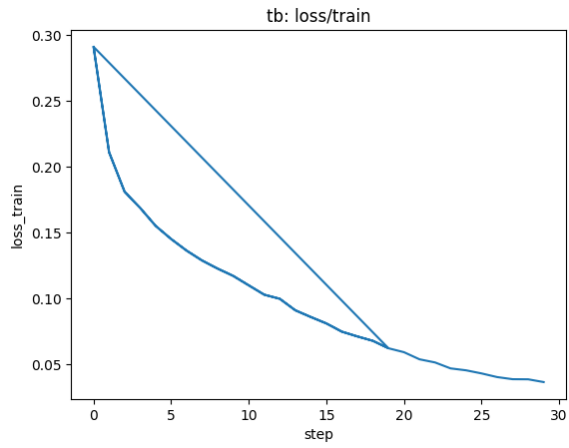
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arch	batch	device	lat_ms_p50	lat_ms_p05	lat_ms_p95	peak_cuda_mib
resnet18	1	cuda	5.313023805618226	5.698320508003235	5.9038209915160	60.15380859375
resnet18	2	cuda	5.2157440185546875	5.382736206054688	5.3095979690581	61.16455078125
resnet18	4	cuda	5.0805120468139655	5.44641137123708	5.8195056915283	63.25634765625
resnet18	8	cuda	6.521343946456905	5.85459065437377	7.83401417732239	69.26806640625

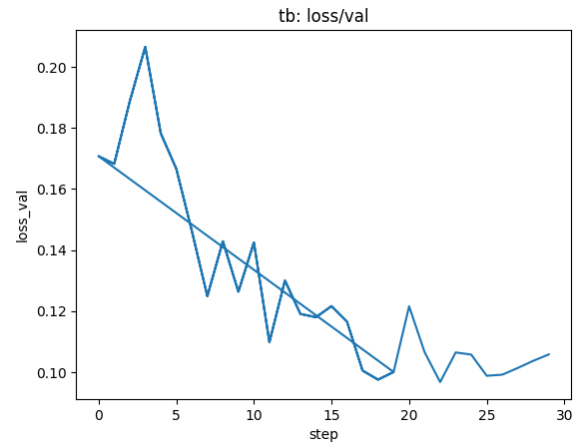
arch	param_bytes	param_mib	img_size	batch	peak_cuda_mib
resnet18	44714256	42.64283752441406	224	1	62.09375



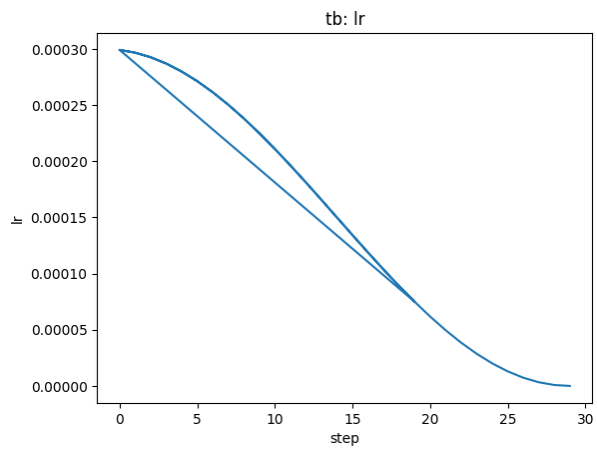
loss\_train.png

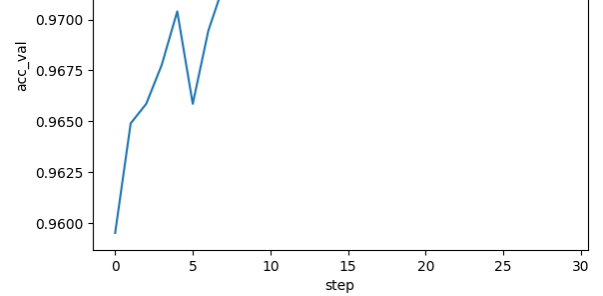
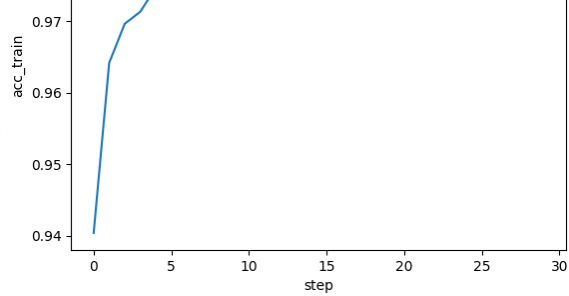


loss\_val.png

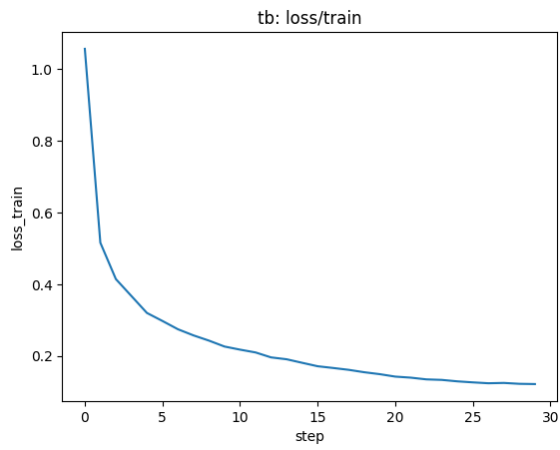


lr.png

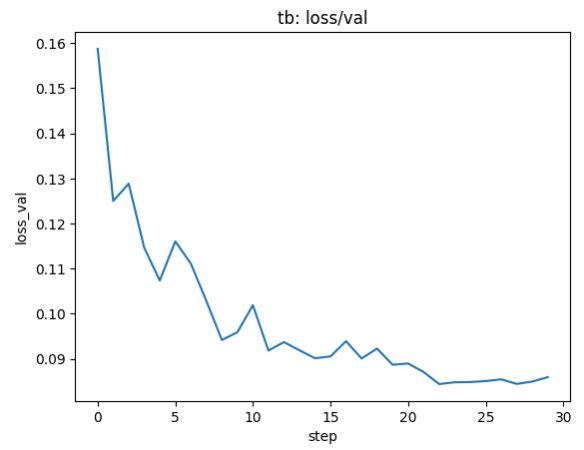




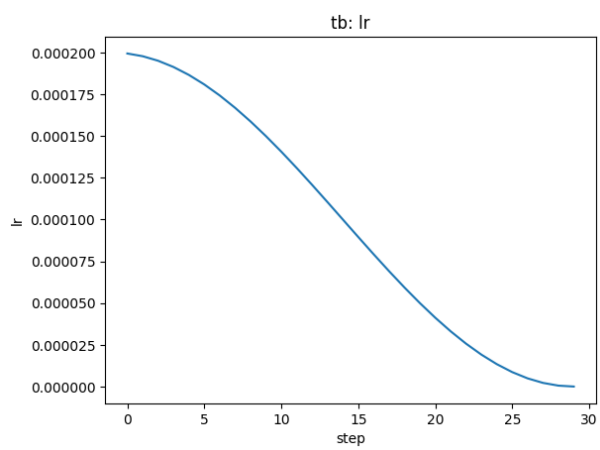
loss\_train.png



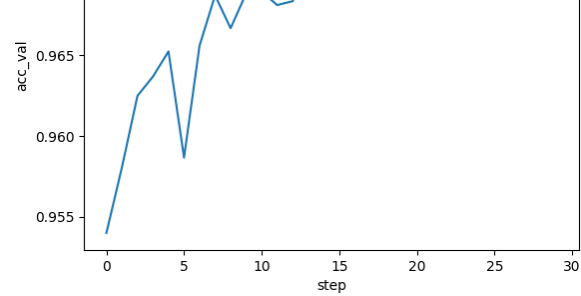
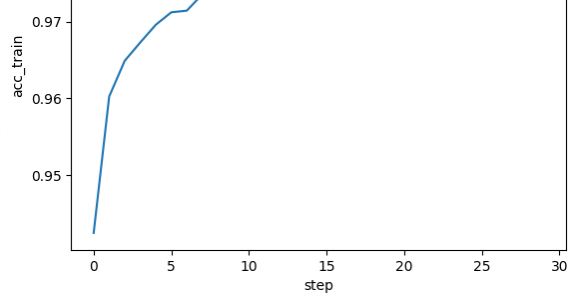
loss\_val.png



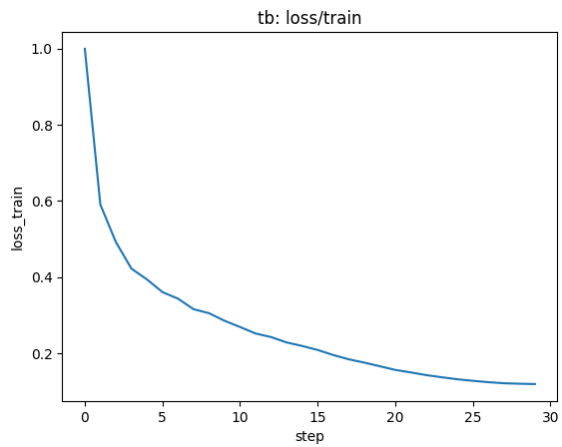
lr.png



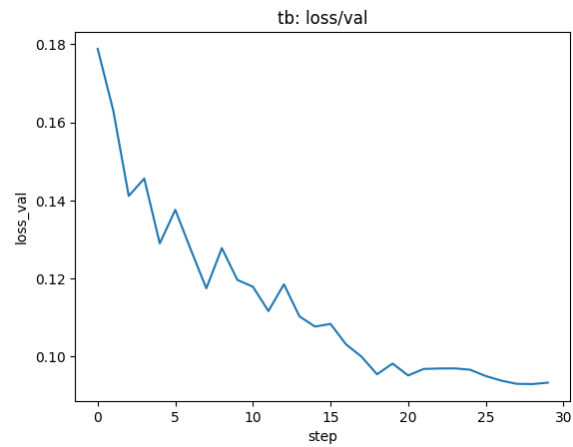




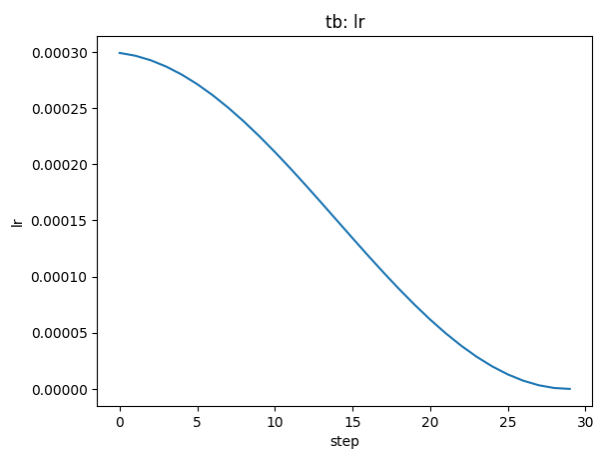
loss\_train.png

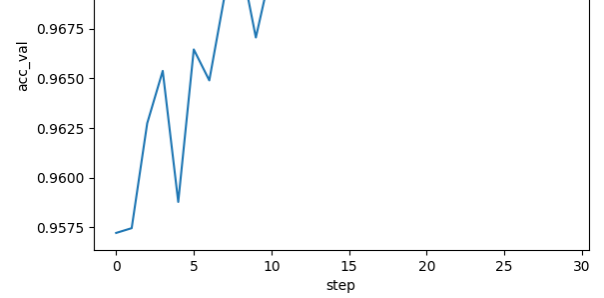
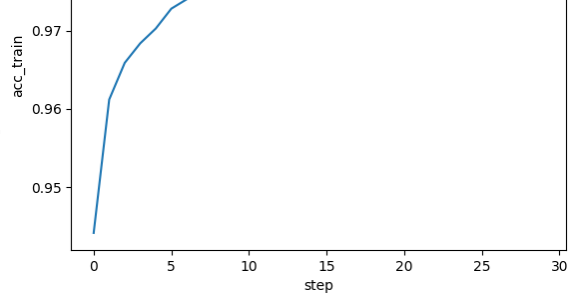


loss\_val.png

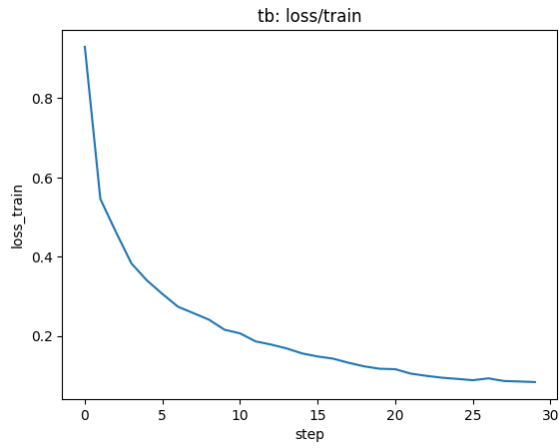


lr.png

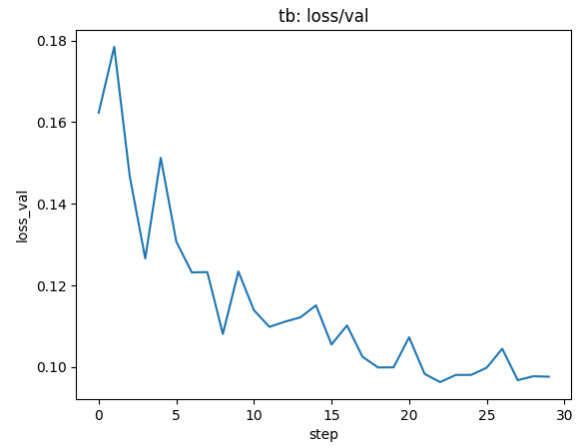




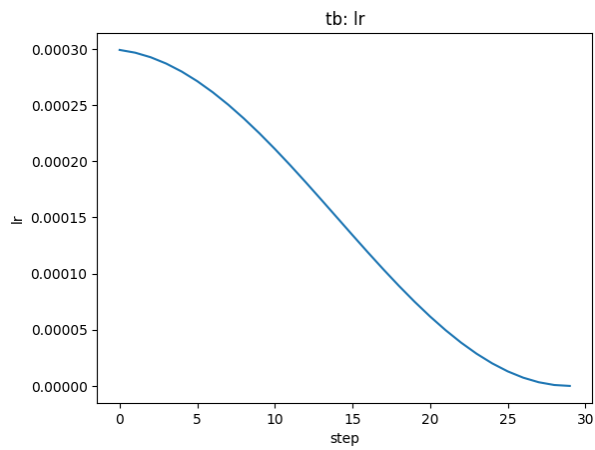
loss\_train.png

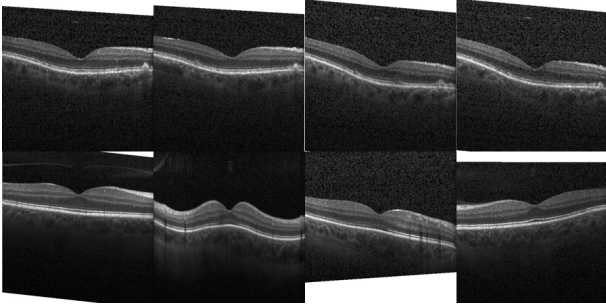


loss\_val.png



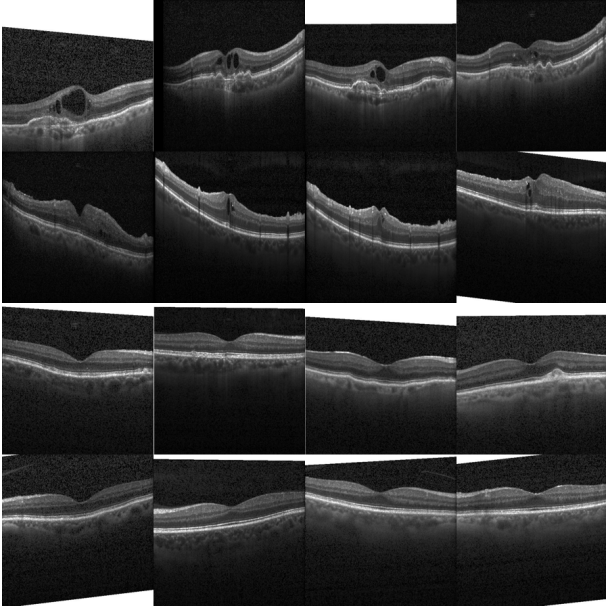
lr.png





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VAL



TEST

