Name of Certifying Engineer(s):

Email of Certifying Engineer(s):

Name(s) of System Under Test:

Division (check one):

* Open

🗹 Closed

Category (check one):

* Available
* Preview

🗹 Research, Development, and Internal (RDI)

Benchmark(s) (check all that apply):

🗹 Visual Wake Words

* Keyword Spotting
* Anomaly Detection

🗹 Image Classification

Please fill in the following table adding lines as necessary:

|  |  |  |
| --- | --- | --- |
| System Under Test Name | Benchmark | Accuracy/AUC |
| B1 | Visual Wake Words | 84.9%/0.94 |
| B1 | Image Classification | 85.0%/0.99 |
| VCU128 | Visual Wake Words | 84.9%/0.94 |

For each SUT, is the benchmark Accuracy/AUC target met? (Not a requirement for the Open division) (check all that apply):

🗹 Yes (Visual Wake Words … 80% Accuracy)

* Yes (Keyword Spotting … 90% Accuracy )
* Yes (Anomaly Detection … 0.85 AUC)

🗹 Yes (Image Classification ... 85% Accuracy)

* No, for some combination of benchmark, scenario and SUT

For each SUT and benchmark, did the submission run on the whole validation set in accuracy mode? (check one):

🗹 Yes

* No

For each SUT and benchmark, does the submission use the EEMBC Runner? (check one)

🗹 Yes

* No

For each SUT and benchmark, is the same code run in accuracy and performance modes? (check one)

🗹 Yes

* No

Are the weights calibrated using data outside of the official calibration set? (check one)

* Yes

🗹 No

What numerics does the submission use? (check all that apply)

* INT4

🗹 INT8

* INT16

🗹 UINT8

* UINT16
* FP11
* FP16
* BF16

🗹 FP32

* Other, please specify:

What backend does the submission use? (check all that apply)

* Vendor backend, please name:
* TF-Lite Micro
* Micro TVM

🗹 Other, please specify: self-developed

Which of the following caching techniques does the submission use? (check all that apply, ideally none):

* Caching Inputs between iterations
* Caching responses between iterations
* Caching intermediate computations between iterations

🗹 None of the above

Which of the following techniques does the submission use? (check all that apply, ideally none if submitting to the closed division.)

* Quantization aware training
* Wholesale weight replacement
* Weight supplements
* Discarding non-zero weight elements
* Pruning
* Modifying weights during the timed portion of an inference run
* Hard coding the total number of queries

🗹 None of the above

Is the submission congruent with all relevant MLPerf rules?

🗹 Yes

* No

If the answer to the above question is no, please explain:

For each SUT, have you filled out the JSON system description file?

🗹 Yes

* No

For each SUT, does the submission accurately reflect the real-world performance of the SUT?

🗹 Yes

* No

Does your submission include the following: (check all that apply)

🗹 System description file

🗹 Code that implements the benchmarks

* Code/scripts that train the model(s) (Open Division)

🗹 Metadata that describes each system-implementation combination tested

🗹 Scripts that set up and execute each system implementation tested

🗹 Result logs for each system implementation tested

🗹 This Checklist