Software and Hardware Reference Materials

in support of the

OCP 8-bit Floating Point Specification (OFP8)

April 10, 2023

1. Software References

This section contains references to software that supports the OFP8 specification, specifically:

- OpenXLA ([RFC](#))
- CUTLASS 2.11 ([Github](#))
- LLVM ([RFC](#))
- TensorFlow FP8 ([Github](#))
- PyTorch Transformer Engine ([Github](#))
- ROCm MIOpen and CK ([Github](#))
- Intel(R) oneDNN ([Github](#))
- Intel(R) OpenVINO™ ([Github](#))

2. Hardware Interchange and Conversion References

This section contains references to papers that define conversions and interchange definitions from other hardware to/from the OFP8 format.

"FP8 Formats for Deep Learning" by NVIDIA, Arm, and Intel at https://arxiv.org/pdf/2209.05433.pdf