

### **R3-A09 Revised Training Plan**

Make the checkpointing fix, then do the number of training epochs as outlined in the calculation below. Let  $K = 1\,000$  and  $M = 1\,000\,000$ .

Using a linearly proportional fit we can estimate the number of epochs needed to train the NN to 100% accuracy:

$$\begin{aligned}\frac{5.97\%}{10K \text{ epochs}} &= \frac{100\%}{t \text{ epochs}} \\ 5.97t &= 100(10K) \text{ epochs} \\ 5.97t &= 1M \text{ epochs} \\ t &= \frac{1M \text{ epochs}}{5.97} \\ t &\approx \boxed{167\,505 \text{ epochs}}\end{aligned}$$