

A scatter plot showing the relationship between Input size (x-axis, logarithmic scale) and Relative error (y-axis, logarithmic scale) for two CPHDNN models: CPHDNN 8 CF (blue dots) and CPHDNN No CF (orange dots). The x-axis ranges from 2 to 12011, and the y-axis ranges from 10⁻³ to 10⁻¹. A horizontal blue line is drawn at Relative error = 10⁻³. The data points show that for both models, the relative error generally increases as the input size increases, with CPHDNN No CF consistently showing higher relative error than CPHDNN 8 CF for the same input size.

Input size	CPHDNN 8 CF (Relative error)	CPHDNN No CF (Relative error)
2	-	~10 ^{-2.8}
~3	-	~10 ^{-2.8}
~30	~10 ^{-3.2}	-
~30	~10 ^{-3.4}	-
~200	~10 ^{-3.1}	~10 ^{-2.9}
~200	~10 ^{-3.2}	~10 ^{-2.9}
~500	~10 ^{-3.3}	~10 ^{-2.5}
~1500	~10 ^{-3.0}	~10 ^{-2.8}
~1500	~10 ^{-3.1}	~10 ^{-2.8}
~12011	~10 ^{-2.5}	~10 ^{-2.6}

A scatter plot showing the relationship between Input size (x-axis, logarithmic scale from 1 to 15004) and Error rate (y-axis, linear scale from 0.00 to 0.10). The plot compares two models: CPHDNN 8 CF (blue dots) and CPHDNN No CF (orange dots). A horizontal blue line is drawn at an error rate of approximately 0.01. The CPHDNN 8 CF model consistently shows higher error rates, generally between 0.02 and 0.05, while the CPHDNN No CF model shows lower error rates, generally between 0.005 and 0.02. Both models show an increasing trend in error rate as input size increases.