

Table J.4. Relative errors of MEMDET (with $n_b = 8$) and NumPy’s `eigh` solver to NumPy’s `slogdet` solver (gold standard).

Quantity	Model	Configuration	ResNet9	ResNet9	ResNet18	MobileNet
	Dataset		CIFAR-10	CIFAR-10	CIFAR-10	MNIST
	Subsample Size		$n = 1000$	$n = 2500$	$n = 1000$	$n = 2500$
Rel. Error	MEMDET (16-bit)		2.2×10^{-15}	5.4×10^{-15}	5.4×10^{-14}	8.7×10^{-16}
	MEMDET (32-bit)		4.2×10^{-12}	4.3×10^{-10}	1.7×10^{-11}	8.4×10^{-12}
	MEMDET (64-bit)		1.4×10^{-8}	5.4×10^{-10}	1.8×10^{-9}	1.7×10^{-6}
	<code>eigh</code> (16-bit)		1.6×10^{-14}	1.7×10^{-14}	2.8×10^{-14}	1.8×10^{-14}
	<code>eigh</code> (32-bit)		5.0×10^{-10}	1.1×10^{-9}	9.2×10^{-12}	4.5×10^{-12}
	<code>eigh</code> (64-bit)		6.1×10^{-8}	7.5×10^{-9}	1.4×10^{-9}	1.0×10^{-5}