

### Impairment Losses

	Year Ended December 31,		% Change
	2019	2018	2019
	(dollars in thousands)		
Impairment losses	\$ —	\$ 2,198	(100)%
% of net revenue	—%	1%	

Impairment losses decreased \$2.2 million to \$0 for the year ended December 31, 2019, compared to \$2.2 million for the year ended December 31, 2018. Impairment losses in 2018 related to acquired developed technology of Exar.

### Restructuring charges

	Year Ended December 31,		% Change
	2019	2018	2019
	(dollars in thousands)		
Restructuring charges	\$ 2,636	\$ 3,838	(31)%
% of net revenue	1%	1%	

Restructuring charges decreased \$1.2 million to \$2.6 million for the year ended December 31, 2019, compared to \$3.8 million for the year ended December 31, 2018.

Restructuring charges in 2019 primarily consisted of lease restructuring charges of \$1.3 million related to exiting certain redundant facilities and severance-related charges of \$1.2 million in connection with employee separation expenses.

Restructuring charges in 2018 primarily consisted of severance-related charges of \$2.1 million in connection with employee separation expenses and lease restructuring charges of \$1.6 million related to exiting certain redundant facilities.

### Interest and Other Income (Expense)

	Year Ended December 31,		% Change
	2019	2018	2019
	(dollars in thousands)		
Interest and other income (expense), net	\$ (10,427)	\$ (13,755)	(24)%
% of net revenue	(3)%	(4)%	

Interest and other income (expense), net changed by \$3.3 million from a net expense of \$13.8 million in the year ended December 31, 2018 to a net expense of \$10.4 million for the year ended December 31, 2019. The change in interest and other income (expense), net was primarily due to a decrease in interest expense pertaining to a lower average balance of debt outstanding under our term loan facility during the year.

### Income Tax Provision (Benefit)

	Year Ended December 31,		% Change
	2019	2018	2019
	(dollars in thousands)		
Income tax benefit	\$ (12,586)	\$ (6,653)	89%
% of pre-tax loss	39%	20%	

The income tax benefit for the year ended December 31, 2019 was \$12.6 million or approximately 39% of pre-tax loss compared to an income tax benefit of \$6.7 million or approximately 20% of pre-tax loss for the year ended December 31, 2018.

The income tax benefit for the year ended December 31, 2019 primarily related to the mix of pre-tax income among jurisdictions, discrete tax benefits related to stock-based compensation, and release of certain reserves for uncertain tax positions under ASC 740-10.