

# Exascale visualization: get ready for a new world

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## 1. ABSTRACT

Exascale computing is on the horizon, and may appear as soon as 2018. So what does this mean for scientific visualization? Plenty. Exascale machines will place severe constraints on I/O, power, data movement, and architecture. The massive data sets produced by these machines will likely require a variety of techniques to be visualized, such as in situ processing, multi-resolution processing, and/or data reduction, all while running on an accelerator. In this talk, Hank will describe the exascale landscape and discuss why and how scientific visualization will look different.

## 2. SPEAKER BIOGRAPHY



Hank Childs is the architect of the VisIt project, a popular program that has been scaled to tens of thousands of cores and processed meshes with trillions of cells per time slice, but also is used by thousands for their day-to-day visualization and analysis needs. He is a computer systems engineer at Lawrence Berkeley Lab and a professional researcher at UC Davis, where he received his PhD in 2006.

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