

# HPC Halloween Horrors

## The cobweb-like complexities of HPC storage

HPC IT environments are critical for numerous industries and use cases, from simulation tools for product development, life sciences research, financial analysis, video rendering, economic modeling, big data analytics and more. However, the majority of HPC storage solutions are overwhelmingly complex, unreliable and costly.

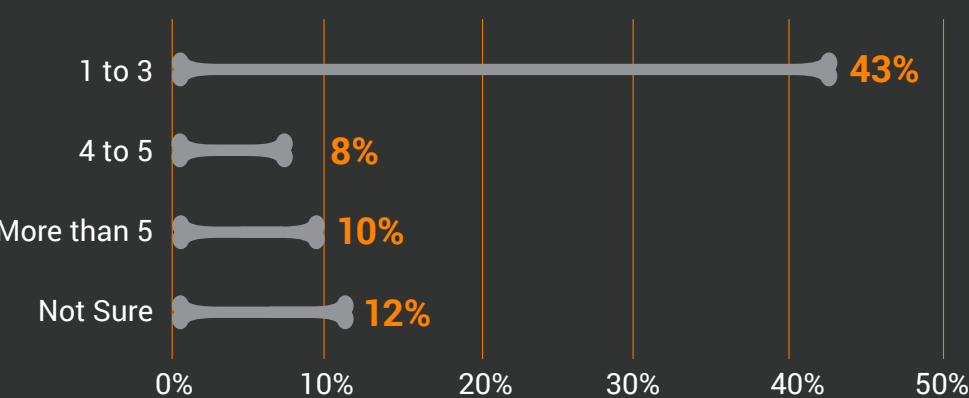
A recent global study by Hyperion Research highlights three ways in which organizations can become ensnared in a sinisterly high total cost of ownership.

Three Halloween horrors follow:

### 1. The shocking cost of HPC storage staffing

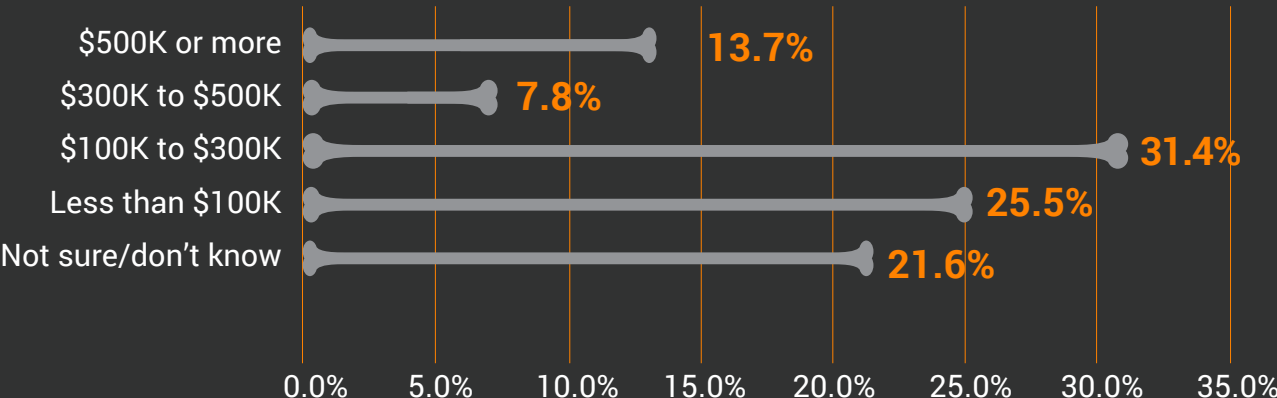
18% of HPC storage installations each require four or more people to manage it

Number of FTE Staff Managing HPC Storage  
FTE Staff Dedicated to Managing HPC Storage



Almost 14% saw costs of \$500,000 or more for HPC storage staff

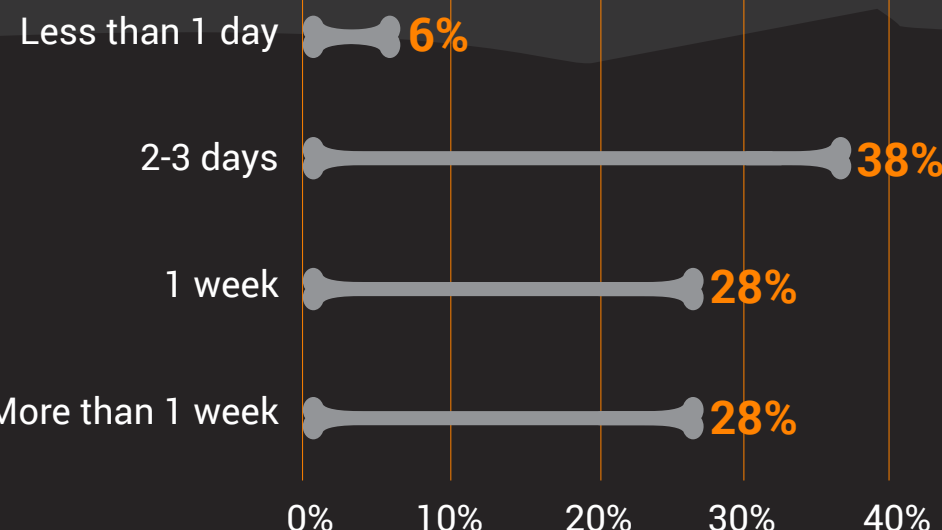
Annual Cost for Staff Managing HPC Storage  
What is the estimated annual cost for storage management staffing?



### 2. Installation and maintenance nightmares

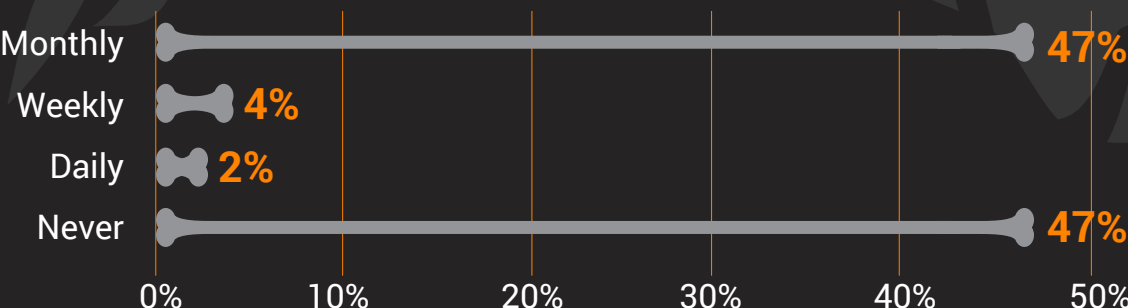
Just 6% of organizations had their new HPC storage rigs up and running within a day, while 28% were still unboxing after a week

Storage Installation Time



Almost half had to tune and retune systems monthly

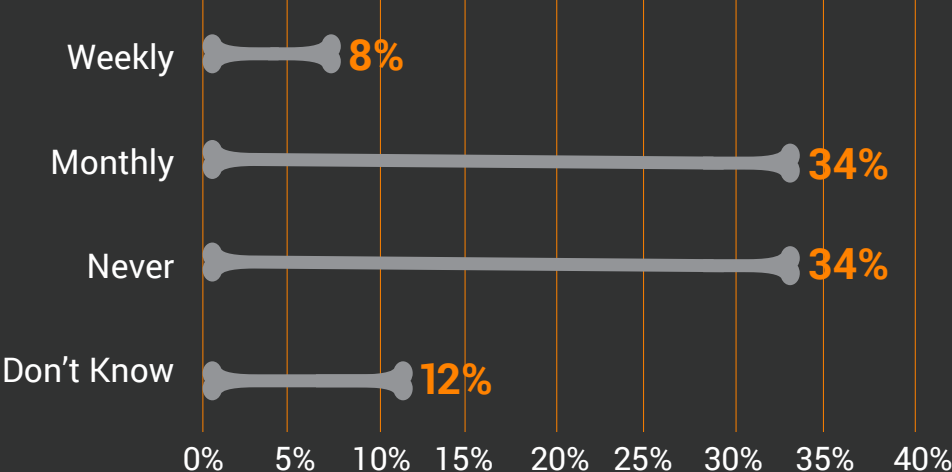
Frequency of Tuning and Re-Tuning



### 3. Spine-chilling outages

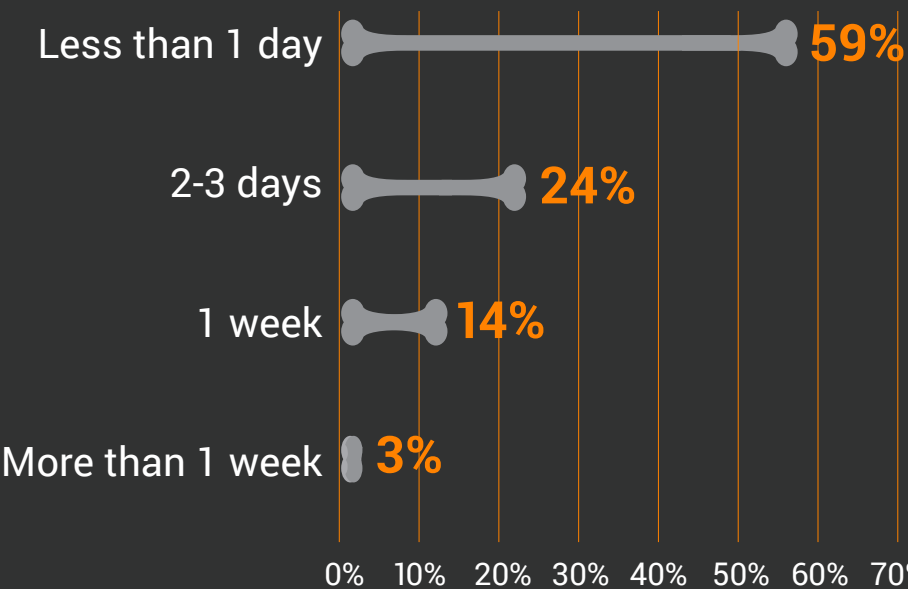
One third of organizations suffered monthly failures and 8% weekly outages

Storage System Failure Frequency



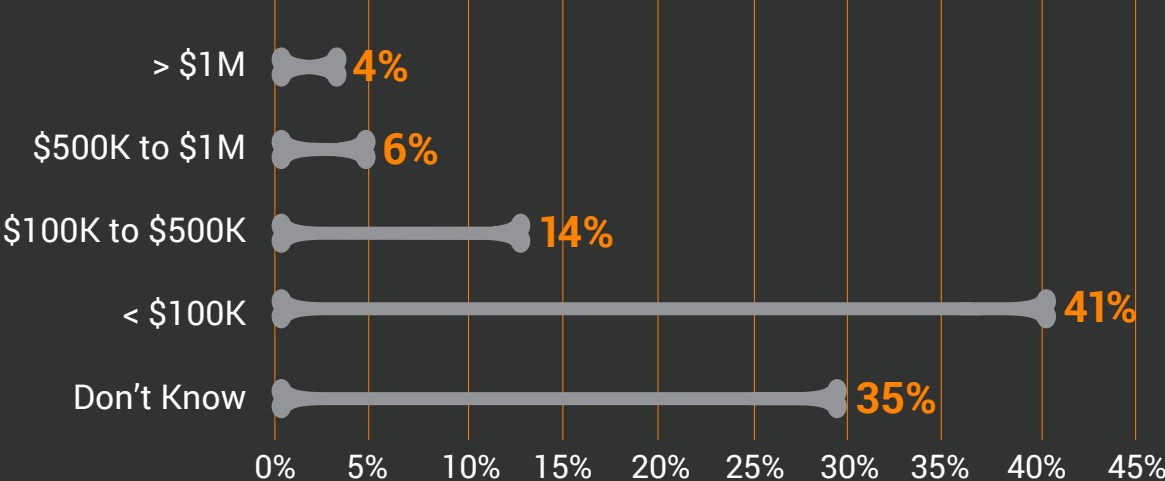
Recovery took two or more days for 41%

Recovery from System Failure



Depending on company size, a day's outage can cost up to, or even over, \$1 million

HPC Storage Single Day Down Time Cost



The entanglements of complex and unreliable storage trap organizations into a high TCO, impacting their productivity and their bottom lines.

To avoid HPC storage costs spinning out of control, organizations must take a step back to reevaluate their storage solutions and demand predictability, resilience and reliability from their technology providers.

Don't be a HPC horror victim.  
Find out how to save yourself at [Panasas.com](https://www.panasas.com)

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