Perhaps not all our readers may know this but the Berkeley Software Distribution, BSD, from which FreeBSD is descended, started out as, essentially, a science project. Since the early days of BSD at UC Berkeley our systems have often been used in the advancement of science, whether on computer science or in support of non-computer science, such as physics, chemistry and biology. Many of the technologies that are now mainstream, such as virtual memory and the TCP/IP protocols, started out as experiments in BSD. Long before the term machine learning was coined, the BSDs were used to store and process scientific data at universities around the world, and in the National Laboratories of the US and other countries. In our latest issue of the FreeBSD Journal, we talk about modern FreeBSD in scientific computing, with articles from Jason Bacon, Benedict Reuschling, and Johannes Dieterich.

We round out our issue with two articles on storage, one on NVM Express, from Jim Harris and Warner Losh, who have written a good chunk of the code in FreeBSD that handles this new, persistent, high speed storage technology. Rick Macklem takes us through pNFS, which allows the Network File System (NFS) to operate in parallel, across a series of servers, which is a common use case within the scientific computing community.

Finally, we have our usual collection of columns this month, with Steven Kreuzer discussing the commit of pNFS to FreeBSD in svn Update, Michael Lucas handling our Letters, and Dru Lavigne keeping you up-to-date on all that is coming up in future months with the Events Calendar.

All of us here at the Journal hope that if you’re in a place that’s quite summery, you’ll pour a version of your most relaxing beverage, sit in the shade, and enjoy this cool mix of all that’s best in FreeBSD.

George Neville-Neil
President of the FreeBSD Foundation Board of Directors