Understanding how stars work is one of the greatest achievements of the human intellect, but not all of the science is known in detail. Like Earth’s climate, the physics of stars is too complex to be fully described by a simple theory. Instead, supercomputers are used to solve equations representing the events inside the stars and their atmospheres. While very powerful, today’s supercomputers can only begin to characterize the rich detail of stellar phenomena, but we can compute results that are both scientifically relevant and beautiful. We are running several large simulations of stars more massive than the Sun on the Pleiades supercomputer. Because of their greater masses, the convective zones of these stars are thinner than the Sun’s, so the zones can be simulated in their entirety on current computers.