As of today, the most common implementation of the LZMA algorithm on open source operating systems is the xz format. However, there are a few others available. Notably, a few packages found in the Gentoo repository use the superior lzip format. Does this mean you may end up having to have separate decompressors for both formats installed? Not necessarily.

The last few years has been a time of major disruption in the Finserv sector. Artificial Intelligence (AI) technology has emerged as an important tool for providers of financial products and services to deliver more personalised and more sophisticated services to customers faster. The financial services sector is at the beginning of an exciting journey with
AI - a journey that we believe will spark a revolution and redefine financial services. Kris Sharma, Financial Services Lead at Canonical has approached this subject from various perspectives.

- **New openSUSE Step Project Looks to Build SUSE Linux Enterprise on More Architectures** [6]

  We're delighted to announce a new project in the openSUSE Project family called openSUSE Step. openSUSE Step is a community effort to rebuild SUSE Linux Enterprise (SLE) from the released SLE sources packages. This is done openly in the openSUSE instance of the Open Build Service (OBS) with the intention to stay fully binary compatible and to be as closely source-compatible as possible with SLE.

- **Accelerating Atmospheric Research at NCAR with HPE and SUSE | SUSE Communities** [7]

  Having lived through many harsh winters in the mountains of Pennsylvania and dangerous hurricanes that have hit the Carolinas, I admire the research involved in monitoring climate change, data simulations and predictive analysis. As one shining example at the center of that research, NCAR (National Center for Atmospheric Research) performs weather modeling to climatology, spanning seconds to centuries. Their research demands high performance, long-term application repeatability and high reliability.

  Community is key at all levels, from interoperable software with HPE and SUSE to collaboration with other centers (e.g., NOAA, NASA, DOE). In fact, NOAA’s EPIC (Earth Prediction Innovation Center) relies on Cray supercomputers which are at the heart of its global prediction system. NOAA and NCAR collaborate in producing global weather simulations to predict future climate shifts.

  The cohesive platform provided by HPE Cray and SUSE Linux Enterprise enables seamless U.S. and global weather simulations. Today, NCAR’s ?Cheyenne? supercomputer enables scientists across the country to study phenomena ranging from weather and climate to wildfires, seismic activity, and airflows that generate power at wind farms. Their findings lay the groundwork for better protecting society from natural disasters, lead to more detailed projections of seasonal and longer-term weather and climate variability and improve weather and water forecasts that are needed by economic sectors from agriculture and energy to transportation and tourism. Later this year, NCAR will make another giant leap forward with a new HPE Cray EX supercomputer with a 19.87 peak petaflops system that will work alongside the ?Cheyenne? system.