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## Preserving access to ALEPH Computing Environment via Virtual Machines

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The ALEPH Collaboration took data at the LEP (CERN) electron-positron collider in the period 1989-2000, producing more than 300 scientific papers. While most of the Collaboration activities stopped in the last years, the data collected still has physics potential, with new theoretical models emerging, and needing a check with data at the Z and WW production energies. An attempt to revive and preserve the ALEPH Computing Environment is presented; the aim is not only the preservation of the data files (usually called “bit preservation”), but of the full environment a physicist would need to perform brand new analyses. Technically, a Virtual Machine approach has been chosen, using the VirtualBox platform. Concerning simulated events, the full chain from event generators to physics plots is possible, and reprocessing of data events is also functioning. Interactive tools like the DALI event display can be used on both data and simulated events. The Virtual Machine approach seems suited for both interactive usage, and for massive computing using Cloud like approaches. Studies are now moving from technical functionality tests (which are positively concluded), to tests and development on how to guarantee an easy and transparent access to ALEPH data in the virtualized platform.

### Summary

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