

## Managing multidisciplinary software repositories for grid with CernVM-FS

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The Finnish Grid Initiative (FGI) has been using CernVM-FS for software distribution since late 2011. Since both the grid and the VO ([fgi.csc.fi](http://fgi.csc.fi)) both national and multidisciplinary there is a big spread of software, from compilers, math libraries, high-energy physics software, genomics software to physical chemistry software. A new approach is for CSC, the IT center for science in Finland, to start distributing Chipter, a toolkit for genomics analysis, via CernVM-FS. The toolkit consists of software and a base set of genomics databases that tally in at around 130 gigabytes compressed. The problems of distributing a dataset this big to multiple places in the world make CernVM-FS a perfect match, especially since few end users will use all parts of the toolkit at once.

For deploying software in both repositories CSC has developed a helper script that makes software installation easy as a normal user on a worker node. Using this, software can be written onto `/cvmfs/` directly, removing the need for path changes later.

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