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Installing and maintaining CDAT (Climate Data Analysis Tools) in multi-user and multi-platform environments

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CDAT is an extensible software environment for the climate scientist, based on the widely used python scripting language. Thanks to all the bundled python modules, CDAT can be used for a wide range of applications, from the powerful replacement of traditional shell scripts for automated data-processing to the interactive graphical analysis of scientific data (with an emphasis on climate data).

CDAT is traditionally used as a single-user desktop tool (each user is responsible for his own version of CDAT). This poster will show how CDAT can be centrally installed, tested and maintained so that multiple users can easily and seamlessly use it in their laboratory and remote computing centers. We use the combination of standard initialization scripts (for the CDAT-manager and the end users) and of standard installation steps to deploy CDAT consistently on all the managed platforms (with the possible concurrent installation of different versions on the same platform).

Reference: http://www2-pcmdi.llnl.gov/cdat