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Tools for GRID deployment of CDF offline and SAM data handling systems for Summer 2004 computing.

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The Fermilab CDF Run-II experiment is now providing official support for remote computing, expanding this to about 1/4 of the total CDF computing during the Summer of 2004.

I will discuss in detail the extensions to CDF software distribution and configuration tools and procedures, in support of CDF GRID/DCAF computing for Summer 2004. We face the challenge of unreliable networks, time differences, and remote managers with little experience with this particular software.

We have made the first deployment of the SAM data handling system outside its original home in the D0 experiment.

We have deployed to about 20 remote CDF sites.

We have created light weight testing and monitoring tools to assure that these sites are in fact functional when installed.

We are distributing and configuring both client code within CDF code releases, and the SAM servers to which the clients connect.

Procedures which once took days are now performed in minutes.

These tools can be used to install SAM servers for D0 and other experiments.

Networks permitting, we will give a live SAM installation demonstration.

We have separated the data handling components from the main CDF offline code releases by means of shared libraries, permitting live upgrades to otherwise frozen code.

We now use a special 'development lite' release to ensure that all sites have the latest tools available.

We have put substantial effort into revision control, so that essentially all active CDF sites are running exactly the same code.

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