# Data Back-Up with UCBackup or Offsite Storage Service

## What is UCBackup?

The UCBackup service provides centralized *workstation* backup support for the UC Berkeley campus over the campus network. This service is available for Apple Macintosh, Windows and many Unix workstations, but we back up only workstations connected to the campus network. For a monthly fee, your computer workstation can be protected from data loss. In the event of hard drive failures, upgrades, and accidental deletions, backed-up files can be recovered through the use of the TSM Software.

The UCBackup service is provided by Central Computing Services and is vendor-supported. We also have a technical staff to provide support and assistance for the service. UCBackup does not provide bare metal recovery.  Recovery requires a working operating system, installation of the TSM client software and network connection to the UCBackup server.

## How Much Does UCBackup cost?

There is no installation charge since the user (or departmental support person) installs the client software on the workstation. As of July 1, 2005, the cost of UC Backup Service is determined by the amount of data stored (occupancy). Charges for each machine are calculated as follows: $0.50/month per stored gigabyte

## How Does UCBackup Work?

The UCBackup service is performed through the use of the TIVOLI Storage Manager-TSM software provided by IBM. When the TSM software is installed by the user and the scheduler program is kept running, TSM will automatically detect any changes you make to your hard drive and back up the data to our UCBackup Server periodically. All back ups are performed through the use of the campus network. The backed-up data can then be accessed quickly and easily by the TSM software and restored on to the local workstation from the UCBackup Server through the campus network.

## Is UCBackup Secure and Confidential?

Yes. Data is sent directly from the user's workstations to a tape robot in a physically secure location. For Windows, Unix and Netware users, it is possible to have the data encrypted with 56-bit DES before it is sent to the UCBackup server and tape robot.

Once the data is on the UCB server, it is moved to a locked box and then transported to a highly secured commercial facility for offsite storage in locked trunks. Requests for restoration are handled automatically by the tape robot and only the owner of the files may request restorations through the use of an encrypted password.

## Does UCBackup Provide Archiving?

Archiving is the ability to save data as of a particular date for a specified, generally long, period of time. The UCBackup system saves the latest five versions of any backed up file, but does not provide archiving.

## How Do I Start Using UCBackup?

1) Submit a UCBackup application, which can be downloaded from our web site (***http://ucbackup.berkeley.edu***), to User & Account Services. We will then issue a nodename, password and back up schedule.

2) Download the TSM Client Software for your OS from ucbackup website.

3) After receiving the nodename, password, and back up schedule from us, install and configure the client TSM Software.

## What is Offsite Storage Service?

OSS provides storage of individual data at an offsite location contracted for by IS&T. Researchers save data on a disk or CD, transport it to IS&T where it is put on a tape, and once a week it is picked up and moved to a location near Sacramento. There is no cost for storage; retrieval costs are about $100 per tape.

## Where Can I Get Further Information?

Please send all questions to ***storage@ccsmail.berkeley.edu***