

Storage Solutions for Researchers

Center for Integrated Research Computing (CIRC) File Services

Brief Description	High-Performance Computing supported data storage (online) for scientific computing. CIRC has two clustered environments, one for general purpose computing and another for high-risk research. The secure computing system permits Rochester researchers to acquire, house, and analyze restricted-use data for scientific research. Access to the secure CIRC computing system is limited to those using restricted-use data for their research, whereas the BlueHive cluster is available to all researchers in the research community.
Example Use	Network Attached Storage for academic research data sets associated with a CIRC computing account. Instrument data including genomic, image, or metabolomics datasets.
Cost	 See contact below for any pricing information.
Capacity	<ul style="list-style-type: none">• No practical file size limit• No practical overall limit (costs incurred)• No practical limit to number of files
Access and Collaboration	Restricted to CIRC Computing Users. Very fine-grained control and enhanced auditing.
Data Allowed Research Data Security Classifications	<ul style="list-style-type: none">• Public data• Moderate risk data• Confidential or restricted/high-risk data• FERPA-protected data• HIPAA-regulated data URMC researchers needing to store or analyze HIPAA-regulated data should contact CIRC and/or Academic IT before choosing a storage option
Durability (protection against data loss)	 High Scheduled snapshots
Availability (protection against downtime)	 High Replication option protects against availability loss due to infrastructure failure. Software and hardware architecture provide availability through routine maintenance windows.
Technical Complexity	 Low A typical user can access with minimal training.
Contact	<ul style="list-style-type: none">• Office of Research IT (SMDIT): (585) 274-4444, SMDIThelp@urmc.rochester.edu• CIRC: circ@rochester.edu