

Resource Summary Report

Generated by SPARC SAWG on Aug 11, 2026

San Diego Supercomputer Center

RRID:SCR_001856

Type: Tool

Proper Citation

San Diego Supercomputer Center (RRID:SCR_001856)

Resource Information

URL: <http://www.sdsc.edu/>

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Description: Founded in 1985, the San Diego Supercomputer Center (SDSC) enables international science and engineering discoveries through advances in computational science and data-intensive, high-performance computing. SDSC is considered a leader in data-intensive computing, providing resources, services and expertise to the national research community including industry and academia. The mission of SDSC is to extend the reach of scientific accomplishments by providing tools such as high-performance hardware technologies, integrative software technologies, and deep interdisciplinary expertise to these communities. From 1997 to 2004, SDSC extended its leadership in computational science and engineering to form the National Partnership for Advanced Computational Infrastructure (NPACI), teaming with approximately 40 university partners around the country. Today, SDSC is an Organized Research Unit of the University of California, San Diego with a staff of talented scientists, software developers, and support personnel. A broad community of scientists, engineers, students, commercial partners, museums, and other facilities work with SDSC to develop cyberinfrastructure-enabled applications to help manage their extreme data needs. Projects run the gamut from creating astrophysics visualization for the American Museum of Natural History, to supporting more than 20,000 users per day to the Protein Data Bank, to performing large-scale, award-winning simulations of the origin of the universe or how a major earthquake would affect densely populated areas such as southern California. Along with these data cyberinfrastructure tools, SDSC also offers users full-time support including code optimization, training, 24-hour help desk services, portal development and a variety of other services. As one of the NSF's first national supercomputer centers, SDSC served as the data-intensive site lead in the agency's TeraGrid program, a multiyear effort to build and deploy the world's first large-scale infrastructure for open scientific research. SDSC currently provides advanced user support and expertise for XSEDE (Extreme Science and Engineering Discovery Environment) the five-year NSF-funded program that succeeded TeraGrid in mid-2011.

Abbreviations: SDSC

Resource Type: institution

Keywords: engineering, bioinformatics, computing, geoinformatics, hardware, industry, science, software, technology, computational science, supercomputing, cyberinfrastructure

Funding: NSF

Availability: Free, Freely available

Resource Name: San Diego Supercomputer Center

Resource ID: SCR_001856

Alternate IDs: nif-0000-10418, Wikidata: Q3947008, grid.419957.7

Alternate URLs: <https://ror.org/04mg3nk07>

Record Creation Time: 20220129T080210+0000

Record Last Update: 20260808T185745+0000

Ratings and Alerts

No rating or validation information has been found for San Diego Supercomputer Center.

No alerts have been found for San Diego Supercomputer Center.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Aalto AP, et al. (2018) Opposing roles of microRNA Argonautes during *Caenorhabditis elegans* aging. *PLoS genetics*, 14(6), e1007379.

Robinson DC, et al. (2018) The Dat Project, an open and decentralized research data tool. *Scientific data*, 5, 180221.

Molina J, et al. (2012) Sleep, stress, neurocognitive profile and health-related quality of life in adolescents with idiopathic musculoskeletal pain. *Clinics (Sao Paulo, Brazil)*, 67(10), 1139.

Lawrenz M, et al. (2009) Independent-Trajectories Thermodynamic-Integration Free-Energy Changes for Biomolecular Systems: Determinants of H5N1 Avian Influenza Virus Neuraminidase Inhibition by Peramivir. *Journal of chemical theory and computation*, 5(4), 1106.

Sheahan KL, et al. (2007) Autoprocessing of the *Vibrio cholerae* RTX toxin by the cysteine protease domain. *The EMBO journal*, 26(10), 2552.