

The HPC Virtual Consultant Project



*Oregon State
University*

*Improving Access to
Online Knowledge*

*Presented by
Sally D. Haerer*



SDH / May 2001 - Indian Wells, CA



*Oregon State
University*

Acknowledgments



Cherri Pancake, Project PI
Sally Haerer, Project Coordinator
Tim Holt, Lead Developer
Jon Herlocker, CS Faculty
Partner HPC Computing Centers



SDH / May 2001 - Indian Wells, CA



*Oregon State
University*

Funding Source

Grant through the PET program at the Naval Oceanographic Office MSRC at Stennis Space Center under contract with Logicon

- MSRC – Major Shared Resource Center
- PET – Programming Environment & Training



SDH / May 2001 – Indian Wells, CA

What is it?



Oregon State
University

- **A *search-and-query* interface system for online information look-up**
- **Targeted for HPC computational scientists and technical consultants**
- **Intelligent parsing, search, and retrieval capabilities**
- **Connected to distributed, independent, quality HPC information sites**
- **Unified look-&-feel interface**

What problem are we solving?



Oregon State
University

- Programming problems occur around the clock
- Even when *expert technical consultants* can be reached, they may not know the answer without first researching the problem themselves
- Online information is abundant, *not* unified, and *not* universally organized
 - Different look-and-feel
 - Different navigational structures
 - Different issues targeted for exposure
- The trials of search-and-query often land in the laps of the *computational scientists*

Possible, Partial Solutions



Oregon State
University

- You could set up your own page of favorite links to good information web sites
- When problems arise, you could examine these links for possible solutions
- Here's an example



File Edit View Search Go Bookmarks Tasks Help

Bookmarks Home Internet Netcaster TSD Home Page RealPlayer Dir

My Links to Good Information Sites

- [Arctic Region Supercomputing Center](#)
- [Naval Oceanographic Office MSRC](#)
- [NCAR's Scientific Computing Division](#)
- [Ohio Supercomputing Center](#)
- [Pittsburgh Supercomputing Center](#)
- [San Diego Supercomputer Center](#)

A Quick Experiment



Oregon State
University

- Let's click on each of these URLs
- The first click goes to the site's home page
- We will click only once more to go to our *best guess* of a place where problem-solving information may reside

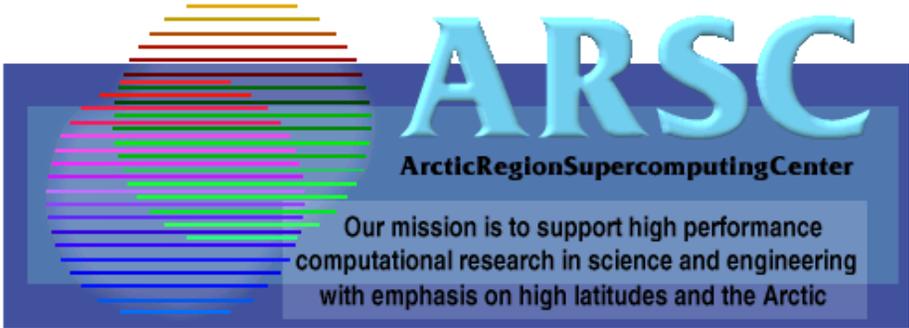
- OK, first is ARSC ...

Arctic Region Supercomputing Center - Netscape 6

File Edit View Search Go Bookmarks Tasks Help

http://www.arsc.edu/ Go Search

Bookmarks Home Internet Netcaster TSD Home Page RealPlayer Directory listing ...



ARSC

ArcticRegionSupercomputingCenter

Our mission is to support high performance computational research in science and engineering with emphasis on high latitudes and the Arctic

- [Resources and Allocations](#)
- [General Information](#)
- [User Services](#)
- [Science and Engineering](#)
- [News and Publications](#)
- [Fairbanks Weather](#)
- [Hot Topics](#)



Visit our [photo library](#) for Alaska, ARSC and UAF related images.

[Supercomputing Upgrades at UAF](#)
[Student Programmer Position Open](#)

Help! Index Search What's New? Host Status

Document: Done

Business Tech Fun Interact

Start VirCons Demo Links - Nets... Microsoft PowerPoint - [CU... Arctic Region Super... 4:22 PM

User Services at ARSC - Netscape 6

File Edit View Search Go Bookmarks Tasks Help

http://www.arsc.edu/user/UserServices.html Go Search

Bookmarks Home Internet Netcaster TSD Home Page RealPlayer Directory listing ...



ARSC
ArcticRegionSupercomputingCenter
User Services

- [Consulting](#)
- [Training](#)
- [How-To's, etc. \(Documentation and Procedures\)](#)
- [Frequently Asked Questions \(FAQs\)](#)
- [User Policies](#)
- [ARSC HPC Users' Newsletter](#)

Go to: Go

Arctic Region Supercomputing Center * P.O. Box 756020 * Fairbanks, Alaska * 99775-6020
voice: (907) 474-6935 * fax: (907) 474-5494 * e-mail: info@arsc.edu

Document: Done

Business Tech Fun Interact

Start VirCons Demo Links - Nets... Microsoft PowerPoint - [CU... User Services at ARS... 4:23 PM



OSC

HOME EMAIL SEARCH
OSC SITEMAP
TEXT VERSION

Innovations In:

- High Performance Computing
- Networking
- Education
- Technology Policy & Public Outreach

General Information:

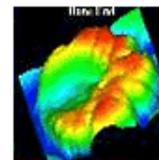
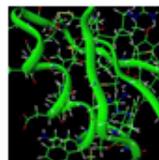
- A Glimpse at OSC
- What's New?!
- **Technical Information Server**
- Statewide Users Group

Special Projects:

- Initiatives & Programs
- OSC Collaborations
- User Research
- OSC Video Library

Welcome to OSC

Innovations in computing, networking, and education



OSC Hosts Successful MPI Course over Grid

OSC is also known as the Ohio Supercomputer Center
This page is optimized for Netscape versions 3.0 and above.
Questions and Comments: webmaster@osc.edu

OSC Technical Information Server - Netscape 6

File Edit View Search Go Bookmarks Tasks Help

http://oscinfo.osc.edu/ Go Search

Bookmarks Home Internet Netcaster TSD Home Page RealPlayer Directory listing ...

Consult Search OSC Tech OSC Home Capital Plan

Notices Usage Grants FAQ Computing Hardware Software Manuals Training

OSC Technical Information Server

Welcome to the OSC Technical Information Server! This site provides the OSC user community pertinent information to access, use, and reference the high-performance computing systems at OSC. Members of the [Science and Technology Support Group](#) provide much of the information for this server.

The gray buttons are for the different areas at this site and the purple buttons are for quick references to consultation contacts and search engines, and this page and the OSC home page.

Here is a synopsis of what you'll find.

[Notices](#)

Scheduled downtimes, workshops, software upgrades, and miscellaneous events that may affect the user community.

[Usage](#)

Annual and monthly HPC system utilization information on a per-platform, per-university basis.

[Grants](#)

All projects go through a peer review process. Apply for a new grant or renew an existing one. Find out who are eligible principal investigators.

[FAQ](#)

Answers to the most Frequently Asked Questions.

Document: Done

Business Tech Fun Interact

Start VirCons Demo Links - Nets... Microsoft PowerPoint - [CU... OSC Technical Infor... 4:25 PM



SAN DIEGO SUPERCOMPUTER CENTER

A National Laboratory for Computational Science and Engineering
at the University of California San Diego

Web Center

- [Biology](#)
- [Chemistry](#)
- [Computing](#)
- [Earth & Space](#)
- [Education](#)
- [Environment & Ecology](#)
- [Government & Society](#)
- [Graphics & Visualization](#)
- [Microscopy](#)
- [Networking & Security](#)
- [News & Reference](#)
- [Scientific Organizations](#)

About SDSC

- [Mission Partnerships Publications Calendar](#)
- [Resources Research Groups Education/Outreach Software/Data](#)
- [Contact SDSC Staff Directory Jobs/Internships Tours Local Information Staff Only](#)
- 
- [Leading-Edge Site](#)

[Click here for information about the Alcatel ADSL modem security alert.](#)

News

Online: 5(10): May 16, 2001

[PDB: Two Big Milestones Reached](#)

[Harnessing the Power of Grid Computing](#)

[Baldridge Named Fellow of the American Physical Society](#)

[SDSC Work Is Part of Cover Story in Chemical & Engineering News](#)

[HPWREN Provides Wireless Communications at CENIC Conference](#)

[NSF Appoints Advisory Committee for Cyberinfrastructure](#)

[Parallel Tools Consortium 2001 Annual Meeting at SDSC](#)

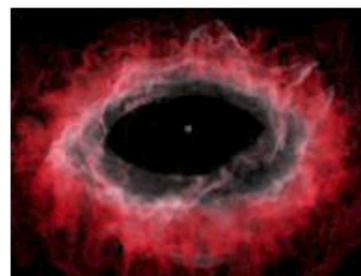
[Parallel Tools Consortium 2001 Annual Meeting at SDSC](#)

Web Center Featured Sites

[Renowned Biologist E.O. Wilson to Speak at Birch Aquarium at Scripps Institution of Oceanography](#)

Sunday, May 20, at 4:30 p.m.
Scripps Institution of Oceanography.
Recipient of the Inaugural Nierenberg Prize for Science in the Public Interest

[Grid on the Go](#) May 20-22, 2001



SDSC Web Center - Netscape 6

File Edit View Search Go Bookmarks Tasks Help

http://www.sdsc.edu/webcenter/response.cgi?category=Computer Go Search

Bookmarks Home Internet Netcaster TSD Home Page RealPlayer Directory listing ...

SDSC Web Center

SDSC WebCenter : Computing

[Archival Storage Research](#)
SDSC projects from the Enabling Technologies group.

[Cray Research Documentation](#)
Cray Research online software publications library.

[DOCT](#)
The Distributed Object Computation Testbed (DOCT) is creating an environment for handling complex documents on geographically distributed data archives and computing platforms.

[Data-Intensive Computing](#)
Projects and research from SDSC's Data-Intensive Computing group.

[Digital Libraries in NPACI and SDSC](#)
NPACI and SDSC activities include work with digital library efforts by UC Santa Barbara, UC Berkeley, Stanford University, the University of Michigan, and the California Digital Library.

[HPSS](#)
SDSC operates the world's largest production High-Performance Storage System (HPSS) installation.

[Hotpage](#)
The NPACI HotPage is designed to increase the effectiveness of users of NPACT's HPC resources by providing links to user documentation and other information.

[MDAS](#)
The Massive Data Analysis System research effort involves defining and prototyping an architecture for accessing very large data archives.

[NHPRC](#)
The National Historic Publications and Records Commission (NHPRC) project conducts research on the long-term preservation of and

Document: Done

Business Tech Fun Interact

Start VirCons Demo Links - Nets... Microsoft PowerPoint - [CU... SDSC Web Center - ... 4:28 PM

SCD home page - Netscape 6

File Edit View Search Go Bookmarks Tasks Help

http://www.scd.ucar.edu/ Go Search

Bookmarks Home Internet Netcaster TSD Home Page RealPlayer Directory listing ...

UCAR NCAR SCD CONTACT US SCD INTERNAL SEARCH

Scientific Computing Division

SCD home News Computers User support MSS Data Visualization Networking SCD info

Photo of the week



Tree plaza ready for service:
After installation of 295 cubic yards of concrete, 293 cubic yards of soil, 3,200 square feet of sod, and 15 trees, the NCAR tree plaza is now open to staff and the public. [Larger photos and caption](#)

[Photo of the week archive](#)

SCD News: News, features, and updates on the SCD computing environment

SCD daily bulletin: Daily

Using SCD computers
Selecting the appropriate computing environment, community computing, Climate Simulation Lab, computers supported by SCD, applying for computer resources, charges, job queues and status, remote computing

Mass Storage System
Intro to the MSS, MSS quick reference, MSS purge, blank tape order form

Visualization
Mesa and Foothills visualization labs, visualization research gallery, NCAR Graphics, NCL, visualization software

SCD information
Future directions, atlas of roadmaps, strategic plan for high-performance simulation, Annual Scientific Report, advisory groups and committees, mission, org charts, SCD sections

User support
Consulting, user documentation, FAQs, tips and techniques, classes and seminars, *SCD News*, daily bulletin

Research data
Atmospheric, oceanographic, and geophysical datasets; data set documentation, inventories, software, and ordering information

Networking
Description of SCD networking services, with links to detailed information

SCD interactive
A virtual interactive tour of the NCAR computing room and Mass Storage System, plus a chance to visit with NCAR scientists and meet the SCD director

The Scientific Computing Division (SCD) is part of the National Center for Atmospheric Research in Boulder, Colorado. SCD's goal is to enable the best atmospheric research in the world by providing and

Document: Done

Business Tech Fun Interact

Start 51:51 - AT&T Global Net... SCD home page - Net... Tera Term - access.nacse... 9:27 PM

User support - Netscape 6

File Edit View Search Go Bookmarks Tasks Help

http://www.scd.ucar.edu/main/user.html

UCAR NCAR SCD CONTACT US SCD INTERNAL SEARCH

SCD home News Computers User support MSS Data Visualization Networking SCD info



User support

Consulting

- SCD consulting office: [Technical Consulting Group](#)
- Consultant on duty: consult1@ucar.edu (303-497-1278)
- Math consultant: valent@ncar.ucar.edu (303-497-1802)

Documentation

- [Getting started using SCD computers](#) (blackforest, babyblue, dataproc, ute, prospect)
- [Catalog of SCD user documents](#)
- [Mass Storage System documents](#)
- Charges for SCD computing resources -- [Community computing](#) and [Climate Simulation Laboratory \(CSL\)](#)
- [SCD computers, products, and libraries chart](#)
- [Libraries of mathematical and statistical software at NCAR](#)
- [NCL: NCAR Command Language](#)
- [NCAR Graphics scientific visualization software package](#)
- [Fortran 90 information](#)
- [Internet services](#) (IRJE, MIGS, SSH, remote computing at NCAR, e-mail)
- [UNIX references](#)

Frequently Asked Questions (FAQs)

- [SCD computing environment FAQ](#)
- [Blackforest FAQ](#)

SCD staff will help you get the most from your computing allocations at NCAR.

[Meet the consultants](#)

SCD News: *News, features, tips, updates, photo of the week*

Daily bulletin: Daily announcements of interest to NCAR users

[Diagram of the SCD computing facility:](#) *What's on the floor now*

[SCD interactive:](#) *A virtual tour of SCD*

[SCD supercomputer gallery:](#) *A*

Document: Done

Business Tech Fun Interact

Start VirCons Demo Links - Nets... Microsoft PowerPoint - [CU... User support - Netsc... 4:21 PM

Pittsburgh Supercomputing Center - Netscape 6

File Edit View Search Go Bookmarks Tasks Help

http://www.psc.edu/ Go Search

Bookmarks Home Internet Netcaster TSD Home Page RealPlayer Directory listing ...

PITTSBURGH SUPERCOMPUTING CENTER Search Site Map Help Contacts

PITTSBURGH SUPERCOMPUTING CENTER

4400 Fifth Avenue Pittsburgh, PA 15213 Ph. 412-268-4960 Fax 412-268-5832

[Text version](#)

News & Events:

[PSC Directors Talk About Terascale System](#)

[Initial Terascale System Enters Production Mode at PSC](#)

[The Alliance Sponsors Cluster Workshop](#)

[Web100 Takes First Step Towards Improving Network Performance](#)

[Shadow Service and Faster Lanes Unjam Traffic at the Pittsburgh GigaPoP](#)

[PSC Provides New Ways to See the Visible Human](#)

[Super Bowl Replay Technology Draws on CMU and PSC Expertise](#)

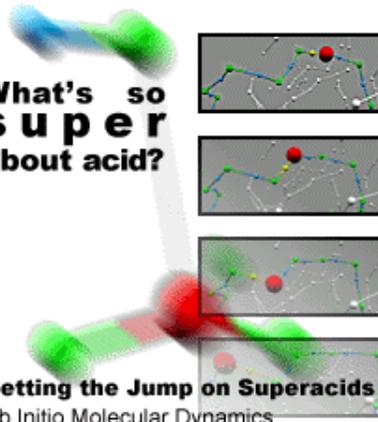
[Next Round of Proposals for PSC's Terascale Machine Now Being Accepted. Grants Also Available for the T3E.](#)

more news in the [News Center](#)

Feature

[feature index](#)

What's so super about acid?



Getting the Jump on Superacids
Ab Initio Molecular Dynamics Study of the Superacids

About PSC

Mission, Sponsors, Partners, Employment, Internship Program, Calendar of Events

Working with Us

Grants, Consulting, Getting an Account, Corporate Partners

Resources for Users

Help, Policies, Web Tools, Hardware, Software, Archival Services

Education

Workshops, Distance Learning, Outreach

Research

Staff, Users, Biomed, Networking, Annual Research Report

Document: Done

Business Tech Fun Interact

Start VirCons Demo Links - Nets... Microsoft PowerPoint - [CU... Pittsburgh Supercom... 4:17 PM

Resources Available to PSC Users - Netscape 6

File Edit View Search Go Bookmarks Tasks Help

http://www.psc.edu/resources.html Go Search

Bookmarks Home Internet Netcaster TSD Home Page RealPlayer Directory listing ...

PITTSBURGH SUPERCOMPUTING CENTER Search Site Map Help Contacts

Resources Available to PSC Users

PSC provides an integrated array of high performance computing and communications products and related services to their users, including supercomputing-class hardware, software, mass storage systems, file storage areas, consulting services, and training. Information on all of these resources is available on the PSC web pages or by contacting the [PSC hotline](#).

Hardware

PSC operates five supercomputing-class machines: a [Compaq Alphaserver cluster](#) with 64 4-processor nodes, a 512 processor Cray [T3E](#), an eight-processor Cray [J90](#), a four-processor [Alphaserver 8400 5/300 system](#), and an [Intel cluster](#) with 20 4-processor compute nodes.

A second Cray [J90](#) serves as an archival system.

Front end machines running either [Digital Unix](#) or [VMS](#) provide access to the supercomputers. Some production software packages are also installed on the front ends.

Software

The most popular software packages are available for computational chemistry, engineering, biomedical databases and sequence analysis, neural sciences and materials science. You can search for the package you need by [software category](#) or by [computing system](#), or you can scan the complete [alphabetical listing](#).

We can also acquire other software if requested and if versions are available for our computers.

Mass Storage and Archival Services

Document: Done

Business Tech Fun Interact

Start VirCons Demo Links - Nets... Microsoft PowerPoint - [CU... Resources Available ... 4:18 PM

NAVAL OCEANOGRAPHIC OFFICE MSRC

MAJOR SHARED RESOURCE CENTER

- [ABOUT NAVO MSRC](#)
- [NAVO MSRC NEWS](#)
- [RESOURCES](#)
- [PROGRAMMING ENVIRONMENT & TRAINING](#)
- [USER SERVICES](#)
- [VISUALIZATION](#)
- [USER TOOLS](#)
- [LINKS](#)
- [VISITOR INFORMATION](#)
- [SEARCH](#)

 * Denotes Real Video clip.
NAVO MSRC Web Videos
Requires [Real Player](#).

The Naval Oceanographic Office ([NAVOCEANO](#)) Major Shared Resource Center (MSRC) is a premiere provider of high performance computing services and support to the United States Department of Defense. We are located within the NAVOCEANO headquarters complex at NASA's [John C. Stennis Space Center](#) on the Mississippi Gulf Coast.


[NAVO MSRC Overview Video](#)

 **UGC 2001 web site is open. Register today.**

 **NAVIGATOR**
[PDF version of the NAVO MSRC Navigator Publication](#)

[Contact NAVO MSRC Web Master](#)



NAVAL OCEANOGRAPHIC OFFICE MSRC

USER SERVICES

[PERSONNEL](#)



[USER FAQ & TIPS](#)

[ACCOUNT APPLICATION](#)



[CONTACT INFO](#)

[ONLINE DOCS](#)

Oh Yes, one more site



*Oregon State
University*

- **Vendor sites have more-or-less complete documentation**
- **SGI, here we come ...**

Welcome to SGI - Netscape 6

File Edit View Search Go Bookmarks Tasks Help

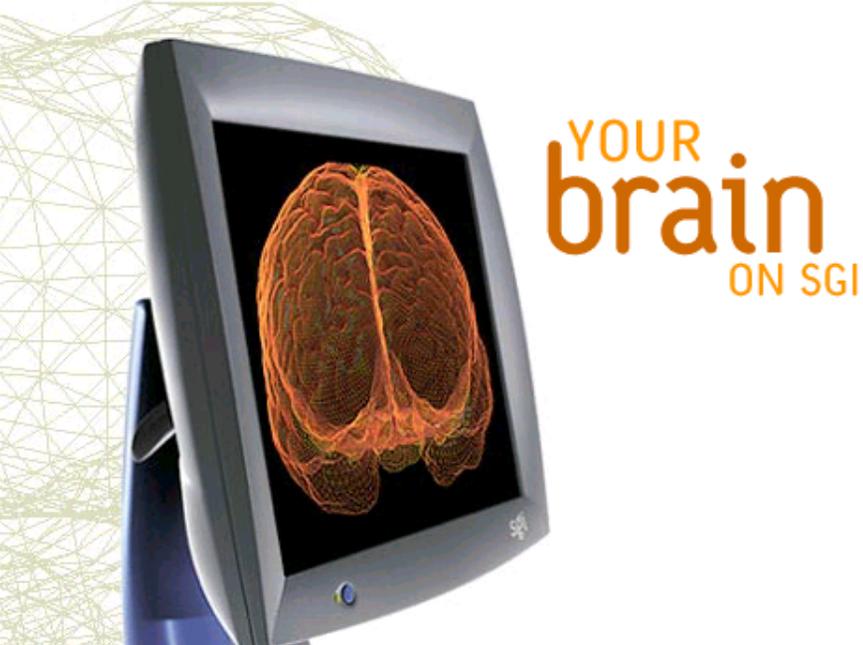
http://www.sgi.com/ Go Search

Bookmarks Home Internet Netcaster TSD Home Page RealPlayer Directory listing ...

sgi™ HOW TO BUY | RESELLERS | COMPANY INFO | CAREERS SEARCH HOME

United States products solutions developers **services & support** serious fun

SGI Worldwide



**YOUR
brain
ON SGI**

TODAY'S HIGHLIGHTS

- SGI Runs World's First TPC-H Benchmark on Linux
- SGI and SANavigator Inc. Announce Strategic Alliance
- SGI Vice President Appears on World Business Review
- [SGI Revolutionizes Low-Cost Immersive Visualization with new SGI Graphics Cluster](#)
- Take our 30 second survey

NEWSROOM SUBSCRIBE

Fast Find

CONFIGURE
A SYSTEM

RATE THIS PAGE

http://www.sgi.com/visualization/graphics_cluster/

Business Tech Fun Interact

Start Welcome to SGI - Ne... 4:57 PM

SGI - Services & Support: Online Support - Netscape 6

File Edit View Search Go Bookmarks Tasks Help

http://www.sgi.com/support/online/ Go Search

Bookmarks Home Internet Netcaster TSD Home Page RealPlayer Directory listing ...

sgi™ HOW TO BUY | RESELLERS | COMPANY INFO | CAREERS SEARCH HOME

United States products solutions developers services & support serious fun

- servers
- workstations
- software
- visualization sys
- storage
- remanufactured
- peripherals

▼ Online Support

- [Supportfolio Online](#)
- [Your Service Contract](#)
- [Product Warranties](#)
- [Software Licensing](#)
- [Pipeline](#)
- [Security](#)

services & support

Need Support Now?
Get phone numbers for the office nearest you.

Online Support



Supportfolio™ Online

Supportfolio, the premier online customer support from SGI, features patches, technical support, and service-call logging and tracking.

Other Online Resources

This is the online portal to SGI resources and helpful information, such as how to order spare parts or transfer warranties. You'll also find a compilation of resources related to education, computer security awareness, and more.

[Technical Pubs Library](#)
Documentation on all versions of every OS supported by SGI.

HIGHLIGHTS

- Every three months, we release a new version of IRIX®. How do apps stay compatible? [\[more\]](#)
- Need an overview of the SGI™ Origin™ 3000 Series? Want to know how to upgrade and configure a system? Read the online owner's guide! [\[more\]](#)
- Challenge® and Silicon Graphics® Onyx® OLS Power Supply FCO Program [\[more\]](#)
- SGI provides the ultimate in support: Mission-Critical Support is now available for IRIX® and SGI Linux® systems from SGI. [\[more\]](#)

http://techpubs.sgi.com/library/tpl/cgi-bin/init.cgi

Business Tech Fun Interact

Start SGI - Services & Sup... D:\PROJECTS\NAVO\Vir... Microsoft PowerPoint - [CU... 4:59 PM



United States

techpubs library

▼ Techpubs Library

- [Home](#)
- [New Content](#)
- [Help](#)
- [Feedback](#)

▼ Related Sites

- [Supportfolio](#)

Library Search

IRIX 6.5	IRIX 6.4	IRIX 6.3	IRIX 6.2	IRIX 5.3	HARDWARE
NT	LINUX				

Keyword search: Search Clear Help

To further optimize your search, select from the following options:

Search (only) in this area : IRIX 6.5

look in: document results/pg: 20 collapse hits (one hit/book)

Books - IRIX 6.5

[Administrative](#), [Developer](#), [End-User](#),
[\[list Books alphabetically\]](#), [\[list localized Books\]](#), [\[find Books by product\]](#)

Product Release Notes / Information - IRIX 6.5

[\[list Product Release Notes / Information alphabetically\]](#)

Man Pages - IRIX 6.5

[User Commands \(1\)](#), [System Calls \(2\)](#), [Subroutines \(3\)](#), [File Formats \(4\)](#), [Miscellaneous \(5\)](#),
[Games and Demos \(6\)](#), [Special Files \(7\)](#), [System Administration \(8\)](#), [Device Driver \(D\)](#),
[\[list Man Pages alphabetically\]](#) (warning: may take some time to load)

So, take it a step further ...



Oregon State
University

- **Certainly, we could have bookmarked the “User Services–like” categories**
- **Or directly to the common documents we go to more often**
- **Bottom–line:**
 - **still requires investigation and study on the part of each and every user or consultant**
 - **navigation is not in concert with other sites**
 - **look–&–feel is neither familiar nor similar**

Example HPC Problem



Oregon State
University

- Data formats vary greatly and the need for multiple conversion capabilities exist
- IEEE data format is the emerged standard
- But there are PetaBytes of *cray binary* data!
- “How can my program read/write a specific kind of binary data format?”
- Specifically, how can my SGI Origin 3K read *cray binary* format?

What if we could enter this?



Oregon State
University

Problem Type: cray binary data

Computer:

- Cray vector
- Cray T3E
- SGI O3K
- IBM SP
- Compaq

Language:

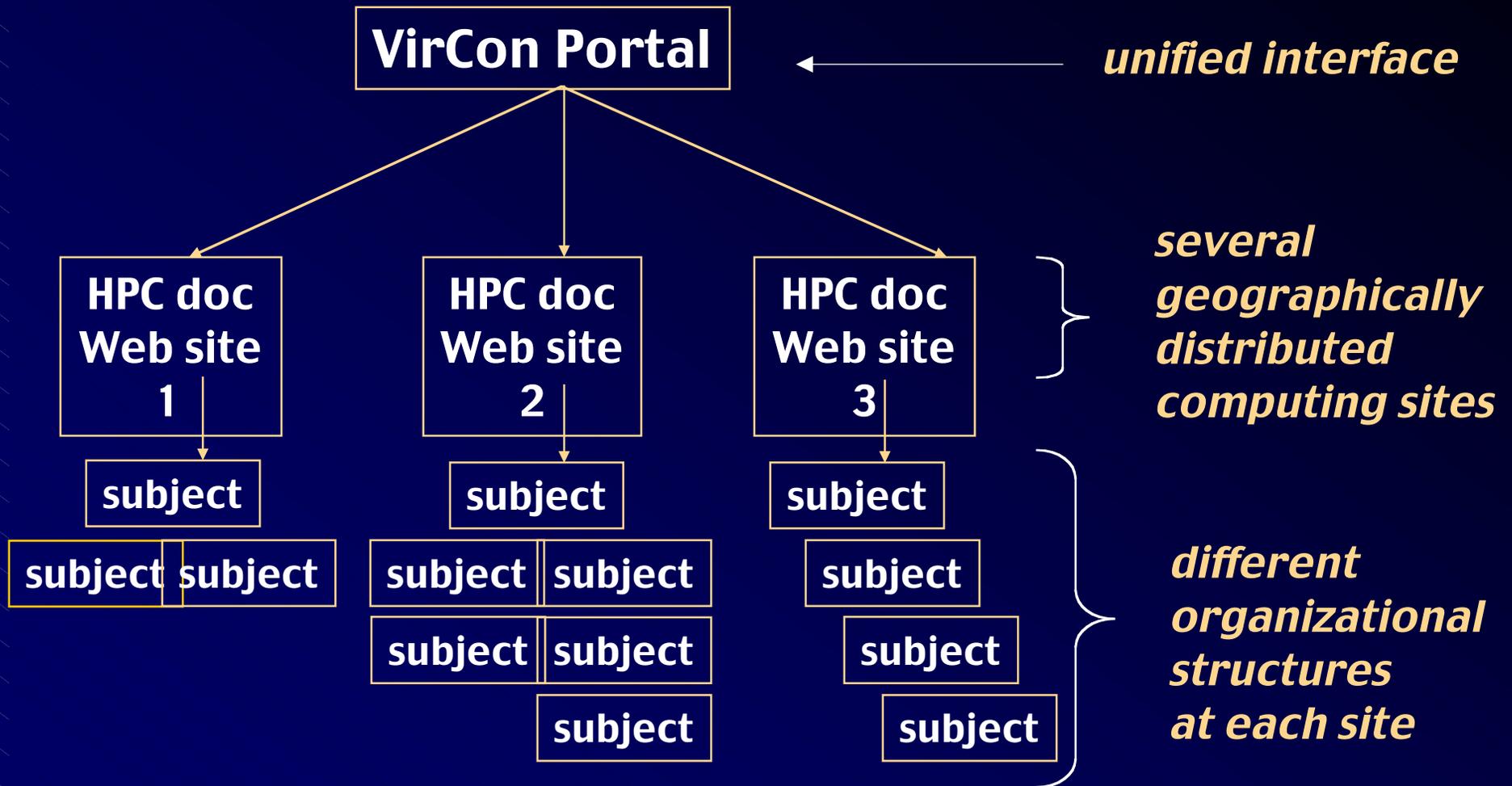
- Fortran90
- C
- C++
-

Search all documentation!

The *Virtual Consultant* Concept



Oregon State
University



Collaboration Required



Oregon State
University

- **A collaborative development effort is underway to define user needs, metadata, navigation, etc.**
- **Selected HPC collaboration sites provide:**
 - **Experienced consultants & web specialists to help formulate information categories and query needs**
 - **Workshops to discuss strategies, metadata, and usability engineering issues**
 - **Each site keeps its own current documentation's organizational structure intact**

Strategy in a Nutshell



Oregon State
University

- **Study state-of-the-art search and retrieval techniques**
- **Design possible common user interface prototypes for experimentation**
- **Collaborate with partner sites**
- **Develop a user-tested common interface & underlying infrastructure**
- **Establish plans to maintain & improve**
- **Advertise the existence of this resource**

1. Search/Retrieval Techniques



Oregon State
University

- **Working with a computer scientist**
 - Jon Herlocker at Oregon State University
- **Building on past testing and research with *collaborative filtering* techniques**
 - “if you like this doc, you might like these others”...
(amazon.com-type systems)
- ***Term frequency* analysis**
 - to determine estimated similarity

More on Techniques ...



Oregon State
University

- **Identification and Categorization**
 - Identify likely user topics of interest
 - Categorize available documents accordingly
 - Build database and metadata
- **Usability metrics**
 - Measure more than just hit rates
 - *Relevance feedback* technique – quick document rating to capture satisfaction and/or success
- **Feedback to partner sites**

HPC Virtual Consultant Search Results

[About](#)
[Log In](#)
[Preferences](#)
[Help](#)

- Search
- Results
- View
- Links
- User Info

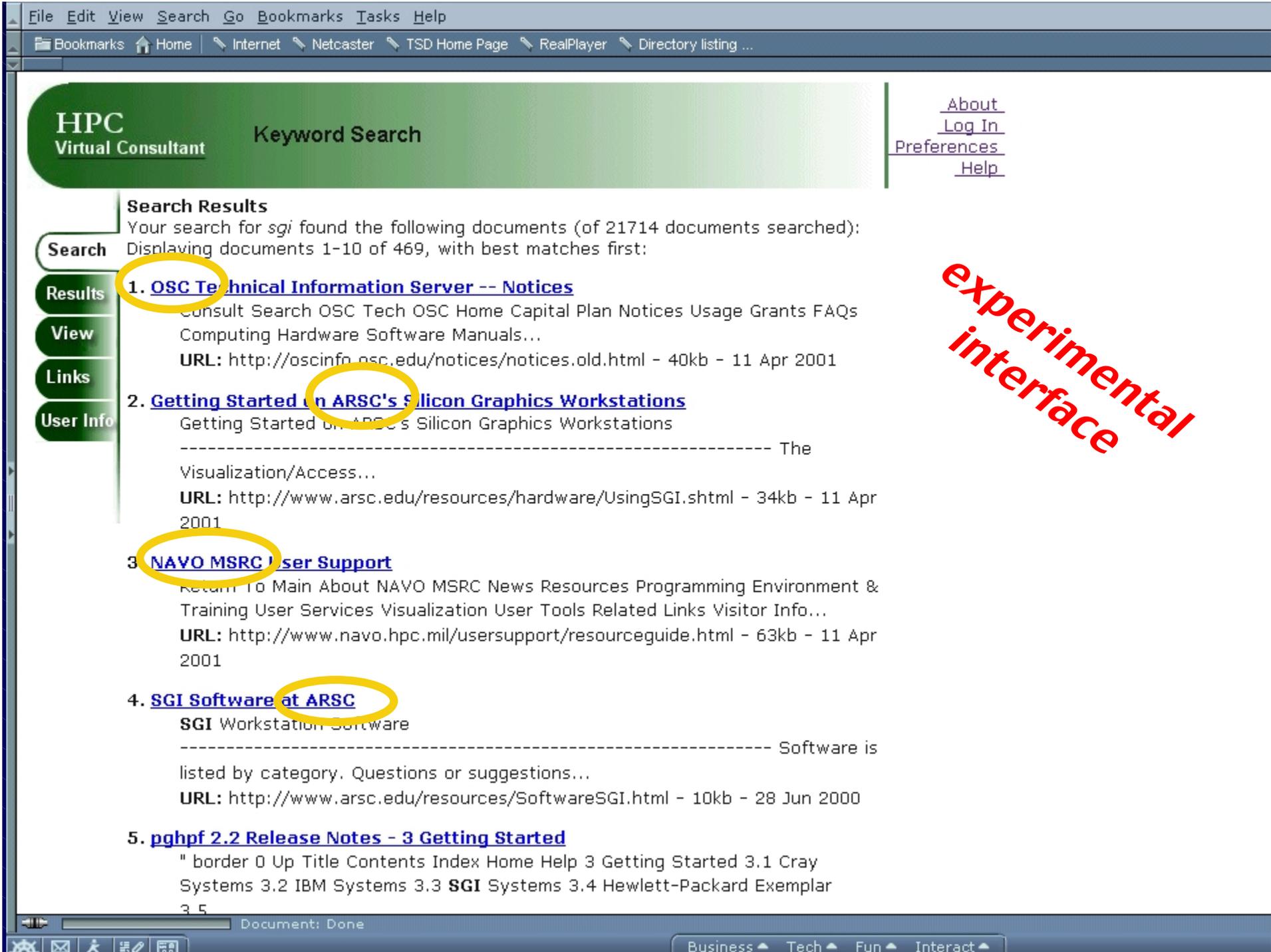
Keyword Search

Match term in Search Index:

experimental interface

Document Categorization Search

Platform <ul style="list-style-type: none"><input type="checkbox"/> Cray Vector<input type="checkbox"/> Cray T3E<input type="checkbox"/> IBM SP<input type="checkbox"/> VAX<input type="checkbox"/> Windows<input type="checkbox"/> UNIX<input checked="" type="checkbox"/> SGI Origin 2000<input type="checkbox"/> Cray (general)<input type="checkbox"/> SGI (general)<input type="checkbox"/> AIX<input type="checkbox"/> Linux	HPC Sites <ul style="list-style-type: none"><input type="checkbox"/> NCSA<input checked="" type="checkbox"/> NAVOCEANO<input type="checkbox"/> Pittsburg Supercomputing Center<input type="checkbox"/> Maui HPC Center<input type="checkbox"/> SDSC<input type="checkbox"/> NCAR<input checked="" type="checkbox"/> Arctic Region Supercomputing Center<input checked="" type="checkbox"/> Ohio Supercomputing Center
Language <ul style="list-style-type: none"><input checked="" type="checkbox"/> FORTRAN 90<input type="checkbox"/> C<input type="checkbox"/> C++	User Environment <ul style="list-style-type: none"><input type="checkbox"/> System Configuration<input type="checkbox"/> File Storage: Disk<input type="checkbox"/> File Storage: Archive<input type="checkbox"/> User Environment<input type="checkbox"/> Allocation
Tools <ul style="list-style-type: none"><input type="checkbox"/> Kerberos	Libraries <ul style="list-style-type: none"><input type="checkbox"/> ESSL



[About](#)
[Log In](#)
[Preferences](#)
[Help](#)

experimental interface

Search Results

Your search for *sgi* found the following documents (of 21714 documents searched):
Displaying documents 1-10 of 469, with best matches first:

- Search
- Results
- View
- Links
- User Info

1. [OSC Technical Information Server -- Notices](#)

Consult Search OSC Tech OSC Home Capital Plan Notices Usage Grants FAQs
Computing Hardware Software Manuals...
URL: <http://oscinfo.osc.edu/notices/notices.old.html> - 40kb - 11 Apr 2001

2. [Getting Started on ARSC's Silicon Graphics Workstations](#)

Getting Started on ARSC's Silicon Graphics Workstations
----- The
Visualization/Access...
URL: <http://www.arsc.edu/resources/hardware/UsingSGI.shtml> - 34kb - 11 Apr 2001

3. [NAVO MSRC User Support](#)

Return To Main About NAVO MSRC News Resources Programming Environment &
Training User Services Visualization User Tools Related Links Visitor Info...
URL: <http://www.navo.hpc.mil/usersupport/resourceguide.html> - 63kb - 11 Apr 2001

4. [SGI Software at ARSC](#)

SGI Workstation Software
----- Software is
listed by category. Questions or suggestions...
URL: <http://www.arsc.edu/resources/SoftwareSGI.html> - 10kb - 28 Jun 2000

5. [pghpf 2.2 Release Notes - 3 Getting Started](#)

" border 0 Up Title Contents Index Home Help 3 Getting Started 3.1 Cray
Systems 3.2 IBM Systems 3.3 SGI Systems 3.4 Hewlett-Packard Exemplar
3.5

3. Collaboration Partners



Oregon State
University

- **Naval Oceanographic Office MSRC**
- **Pittsburgh Supercomputing Center**
- **NCAR's Scientific Computing Division**
- **Arctic Region Supercomputing Center**
- **Ohio Supercomputing Center**
- **San Diego Supercomputer Center**
- **Possibly more ...**

Collaboration Efforts



Oregon State
University

- **Pick the brains of a technical consultant and a web/information specialist from each partner site**
- **Investigate how users generally**
 - **define/categorize their problems**
 - **search for online solutions**
- **Identify what methods we can use internally to hit good documents and information sources – *establish our metadata***

4. User-Centered Design Plans



Oregon State
University

- Identify target user audience & needs
- Define system to satisfy user needs
- Build *user interface*
- Test with consultants and users
- *Refine* interface
- Repeat, as needed ...

5. & 6. Look to the Future



*Oregon State
University*

- **Plan a reasonable maintenance strategy**
- **Move to a production platform**
- **Let everyone know about this resource and where it lives**
- **...starting with our partner sites ...**



***We have evolved into an international community that
has no formalized working hours***



Oregon State
University

Summary

- Computational scientists as well as technical consultants need a 24-hour *Virtual Consultant*
- *VirCon* is an intelligent, unified, search-and-query interface to distributed information
- Improving access to online knowledge can mean *faster time-to-solution*



SDH / May 2001 - Indian Wells, CA



*Oregon State
University*

Contact Information



Sally Haerer
Oregon State University
haerer@cs.orst.edu



SDH / May 2001 - Indian Wells, CA