OpenSolaris Testing

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Questions to get to know the Audience

1) How many of you have seen or ever used a SPARC machine?

2) How many of you have used a system with 16 cpus and 32 GB of memory?

3) How many of you would like access to machines like this?
Stay, and you will see what OpenSolaris Contributors will have access to
Agenda

- OpenSolaris Testing Community
- OpenSolaris Test Suites and Test Frameworks
- OpenSolaris Test Development
- Test Downloads and Test Source Browsing
- OpenSolaris Test Plans and Strategies
- OpenSolaris Self-Service Testing
- OpenSolaris Test Farm
OpenSolaris Testing Community

opensolaris.org/os/community/testing

- Test Support
- Email Discussions testing-discuss@opensolaris.org
- Test Suites and Test Frameworks
- Test Development
- Test Downloads and Source Browser
- Test Plans and Strategies
- Automated Testing and Test Machines
OpenSolaris Test Suites

• Solaris Test Collection (STC)
  • NFSv4 – NFS Version 4 Test Suite
  • ZFS – ZFS Test Suite
  • Sharemgr – Share Manager Test Suite
  • iSCSI – SCSI initiator Test Suite
  • Sharemnt – Share Mount Test Suite
  • libusb – libopenusb Test Suite
  • KMF – Key Management Framework Test Suite
  • SBD – Secure by Default Test Suite

• Solaris Cluster Automated Test Environment
  • DATS – Data Services Automated Test Suite
  • GEO – Geographic Edition Automated Test Suite

• Many more test suites are being open sourced!
OpenSolaris Test Frameworks

- **TET** – Test Environment Toolkit
  - Primary test framework (developed by The Open Group)
- **CTI for TET** – Common Test Infrastructure
  - Sun developed tools and API extensions to TET
- **STF** – Solaris Test Framework
  - Sun developed test framework (not used for new tests)
- **Test Tools**
  - Checkenv – check environment dependencies
  - Runwattr – run with attributes (roles, permissions)
  - krb5tools – Kerberos configuration and test tools
OpenSolaris Test Development

• Test Development Project
  • opensolaris.org/os/project/test-dev
  • Hosts test source gates and package repositories
  • Develops test frameworks and tools
  • Establishes test development processes

• Test Suite Development
  • Developed in projects along with OpenSolaris code
  • Integrated into test source gate when project integrates
  • Used as regression tests during bug fixing
Test Downloads and Source Browser

• Test Download Center
  • dlc.sun.com/osol/test/downloads/current
  • Compressed Tarballs
  • Test Source Repositories
  • Test Suites, Test Frameworks and Test Tools
  • Test Packages
  • Test Results and Baselines

• Test Source Browser
  • cvs.opensolaris.org/source/xref/test
  • OpenGrok Code Search
OpenSolaris Test Plans and Strategies

• OpenSolaris Test Plans
  • NFSv4 Namespace Extensions Test Plan
  • SCM Migration Test Plan
  • Wireless USB Support Test Plan
  • Snap Upgrade Test Plan
  • Fingerprint Authentication Test Plan
  • More to come ...

• Test Strategies
  • OpenSolaris Software Quality Assurance (in work)
  • OpenSolaris Distribution Certification (in work)
  • OpenSolaris Test Review (planned)
OpenSolaris Self-Service Testing

test.opensolaris.org/selftest

- Fully Automated Testing Service
- Functional Tests (Managed by Solaris ON-PIT)
- Performance Tests (Managed by Solaris Perf-PIT)

Access Requirements

- OpenSolaris User Name
- Contributor ID (OSNNNN)
- Active Project or Bug
- Accept Terms & Conditions

- All OpenSolaris users can view results
Self-Service Testing Tests

• Functional Tests
  • findleaks
  • nfsv4_test (client/server)
  • zfstest
  • iSCSI
  • sharemgr
  • sharemnt
  • kmf
  • sbd

• Performance Tests
  • boottime
  • libmicro
  • netperf
  • samba_torture
  • iperf
  • nttcp
  • lmbench
  • bonnie

• More to come ...
Self-Service Testing Process

- **Build OpenSolaris**
  - Use nightly or make command to build OpenSolaris
  - Remember to use -z flag to create compressed files
  - Use makebfu command to create BFU archive

- **Upload BFU Archive**
  - Use tar command to make compressed tar BFU file
  - Upload files

- **Submit Test Request**
  - Select functional and performance tests to run
  - Select BFU Archive(s)
  - Submit test request

- **View Results**
Self-Service Testing Demo
OpenSolaris Test Farm

test.opensolaris.org/testfarm

• Remote Test Systems
  • Developed by Solaris QE and Managed by Solaris Labs
• Root and Console Access
• Remote Power Control

Access Requirements
• OpenSolaris User Name
• Contributor ID (OSNNNN)
• Active Project or Bug
• Accept Terms & Conditions

FINALIZING CODE
RELEASING SOON!
Test Farm Hardware

- **Ultra Sparc T2000**
  - 8 core T1, 1.2 GHz (32 Threads)
  - 16 GB Memory, 4x68 GB Disks

- **Opteron X4200M2**
  - 2 dual-core 2.8 GHz
  - 8 GB Memory, 4x68 GB Disks

- **Opteron X4600M2**
  - 8 dual-core 2.6 GHz
  - 32 GB Memory, 4x68 GB Disks

- **Intel X4150**
  - 2 quad-core, 2.4 GHz
  - 16 GB Memory, 4x146 GB Disks

- **Ultra Sparc T5120**
  - 8 core T2, 1.2 GHz (64 Threads)
  - 32 GB Memory, 4x146 GB Disks
Test Farm Reservations

- Reserve by Type of System
- Reserve by Individual System
- Waitlists
- System Specifications
- Email Notification
- Reservation Limits
  - Limited number of machines user may use at one time
  - Duration Limits from 3 to 10 Days
  - Users get full duration after system is setup
Test Farm System Detail

- System Information
- Waitlist Display
- Reservation History
- Confirm Reservation
  - Root Password (user defined)
  - Project Name or Bug Information
  - Duration
  - OS Build to be Installed
Test System Access

SSH Login

```bash
# ssh osuser@199.12.155.13
Password:
Last login: Mon Aug 27 19:41:58 2007 from 143.21.22.23
Sun Microsystems Inc. SunOS 5.11 snv_72 October 2007
# uname -a
SunOS x4600-010101 5.11 snv_72 i86pc i386
#
```

SCP File Transfer

```bash
TO SYSTEM>>>  
#  
# scp -rp test osuser@199.12.155.13:/test
Password:
test_testsuite  100% |************| 23256  00:00
results  100% |************| 1141  00:00
threadlist.txt  100% |************| 1274  00:00
tsufs_run.txt  100% |************| 13699  00:00
#  
<<<FROM SYSTEM
#  
# scp osuser@199.12.155.13:/test/results test
Password:
results  100% |************| 1141  00:00
#  
```

- Console and Network Login using SSH
- File Transfers to and from System using SCP
- No Outbound Network Traffic Allowed
- Remote Power Control and Reboot via Service Processor (sp)
  - ILOM – X64
  - ALOM - SPARC
Things in the works

• More Test Suites
• More Test Systems
  • Blade servers
• External Storage
• IP Reservations
• Virtualization
  • xVM & LDOMS
  • Named Zones
  • Trusted Zones
• Application Testing

• Build Zones
  • Build Tools & Compilers
  • Where developers can build OpenSolaris software
• OpenSTEP
  • Solaris Test Execution Project
  • Automatically downloads tests and executes them on any test machine
• Much more ...
Questions?
Get Involved!

http://www.opensolaris.org/os/community/testing
Thank you!

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http://blogs.sun.com/jwalker

“open” artwork and icons by chandan: http://blogs.sun.com/chandan
Self-Service Testing Demo

- Home
- Upload
- Submit
- Results
  - User Test Run Summary
  - Functional Test Results
    - Test Run Summary
    - Journal File
    - Log File
    - Console Output
    - Known Bug Report
  - Performance Test Results
    - Test Run Summary
    - Test Run Detail
- Help
Self-Service Testing Home

This is a fully automated testing service that allows OpenSolaris contributors to submit functional and performance test runs on various machine architectures and review the results. Test results are automatically compared to baselines so that functional and performance regressions can be identified and corrected prior to integration into the OpenSolaris code base.

Only sponsor approved users may use this service. Due to licensing and resource limitations, only selected tests are provided. Additional testing may be required, see your sponsor for more details. This testing service is managed by the Sun Microsystems Solaris ON Pre-Integration Test (ON-PIT) and Solaris Performance PIT (Perf-PIT) organizations located in Dublin, Ireland.

Self-Service Process

1. Upload
The Upload page allows you to upload BFU archives that you generated after you built your version of OpenSolaris. You must provide at least one bfu archive before you can submit a test run.

2. Submit
The Submit page allows you to select the tests, select the BFU archives to use and submit a test request.

3. Results
The Results pages allows you to review the functional and performance test result summaries
Upload BFU Archive

BFU Tar File

Architecture | Build Type
--- | ---
sparc | debug

Note: Files will be overwritten if duplicate names are used.
Debug BFU archives are required for functional testing.
Non-Debug BFU archives are required for performance testing.

BFU Archives

<table>
<thead>
<tr>
<th>Name</th>
<th>Arch</th>
<th>Debug/Non-Debug</th>
<th>Date Uploaded</th>
</tr>
</thead>
<tbody>
<tr>
<td>snv_71nd_sparc.tar</td>
<td>sparc</td>
<td>non-debug</td>
<td>2007-09-25 20:50:32</td>
</tr>
<tr>
<td>snv_71_sparc.tar</td>
<td>sparc</td>
<td>debug</td>
<td>2007-09-25 20:31:18</td>
</tr>
<tr>
<td>snv_71nd2_sparc.tar</td>
<td>sparc</td>
<td>non-debug</td>
<td>2007-09-25 21:09:53</td>
</tr>
</tbody>
</table>
Submit Test Request

Step 1. Enter Test Request Information

<table>
<thead>
<tr>
<th>Request Name</th>
<th>Architectures</th>
<th>Baseline Build</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>zfs</td>
<td>Sparc X86 (32-bit) X64 (64-bit)</td>
<td>snv_72</td>
<td></td>
</tr>
</tbody>
</table>

Step 2. Select Tests

<table>
<thead>
<tr>
<th>Functional</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>findleaks</td>
<td>boottime</td>
</tr>
<tr>
<td>nfv4_test (client/server)</td>
<td>libmicro</td>
</tr>
<tr>
<td>zfetest</td>
<td>netperf</td>
</tr>
<tr>
<td>iSCSI</td>
<td>samba_torture</td>
</tr>
<tr>
<td>sharemnr</td>
<td>iperf</td>
</tr>
<tr>
<td>sharemnt</td>
<td>nttcp</td>
</tr>
<tr>
<td></td>
<td>Imbench</td>
</tr>
<tr>
<td></td>
<td>bonnie</td>
</tr>
</tbody>
</table>

Step 3. Select BFUs

Sparc Debug BFU: snv_71_sparc.tar
## Results for User (jwtest)

<table>
<thead>
<tr>
<th>Run Name</th>
<th>Status</th>
<th>Architectures</th>
<th>Tests</th>
<th>Date of Submission</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>f1</td>
<td>Scheduled</td>
<td>Sparc</td>
<td>findleaks zfstest</td>
<td>2007-09-25 21:17:18 PDT</td>
<td>Details</td>
</tr>
<tr>
<td>performance</td>
<td>Running</td>
<td>Sparc</td>
<td>bonnie2 iperf202 gl_boottime nttcp3 sw4_boot lmbench-3-0-a4 netperf3 smbtimeout/tmpfs libmicrov12</td>
<td>2007-09-25 21:16:44 PDT</td>
<td>Details</td>
</tr>
<tr>
<td>p1</td>
<td>Scheduled</td>
<td>Sparc</td>
<td>gl_boottime sw4_boot</td>
<td>2007-09-25 21:17:42 PDT</td>
<td>Details</td>
</tr>
<tr>
<td>functional</td>
<td>Completed</td>
<td>Sparc</td>
<td>findleaks iSCSI nfsv4_test sharemgr sharemnt zfstest</td>
<td>2007-09-25 21:15:41 PDT</td>
<td>Details</td>
</tr>
<tr>
<td>Test Name</td>
<td>Architecture</td>
<td>Platform</td>
<td>Queue length</td>
<td>Options</td>
<td>Result</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>----------------------------------------------</td>
<td>--------------</td>
<td>---------</td>
<td>--------</td>
</tr>
<tr>
<td>findleaks</td>
<td>sparc</td>
<td>SUNW, Sun-Fire-V240, 2 x 1280MHz, 2048 Megabytes</td>
<td>0</td>
<td>none</td>
<td>PASS</td>
</tr>
<tr>
<td>iSCSI</td>
<td>sparc</td>
<td>SUNW, Sun-Fire-V240, 2 x 1280MHz, 2048 Megabytes</td>
<td>0</td>
<td>none</td>
<td>PASS</td>
</tr>
<tr>
<td>nfsv4_test</td>
<td>sparc</td>
<td>SUNW, Sun-Fire-V240, 2 x 1280MHz, 2048 Megabytes</td>
<td>0</td>
<td>none</td>
<td>PASS</td>
</tr>
<tr>
<td>sharemgr</td>
<td>sparc</td>
<td>SUNW, Sun-Fire-V240, 2 x 1280MHz, 2048 Megabytes</td>
<td>0</td>
<td>none</td>
<td>PASS</td>
</tr>
<tr>
<td>sharemnt1</td>
<td>sparc</td>
<td>SUNW, Sun-Fire-V240, 2 x 1280MHz, 2048 Megabytes</td>
<td>0</td>
<td>none</td>
<td>PASS</td>
</tr>
<tr>
<td>zfstest</td>
<td>sparc</td>
<td>SUNW, Sun-Fire-V240, 2 x 1280MHz, 2048 Megabytes</td>
<td>0</td>
<td>none</td>
<td>PASS</td>
</tr>
</tbody>
</table>
### Results for Test Run (functional) Test (iSCSI) Arch (sparc)

**Available log files for this testsuite execution:**

- **Testsuite journal (Pass/Fail)**
- **Testsuite logfile (Install, Config, Make, etc)**
- **Console output for System Under Test #1**

**Detailed testcase execution:**

<table>
<thead>
<tr>
<th>TEST RESULTS</th>
<th>TEST RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 tc_modify_iscsit1</td>
<td>FAIL 6518741</td>
</tr>
<tr>
<td>2 tc_modify_iscsit3</td>
<td>FAIL 6518741</td>
</tr>
<tr>
<td>3 tc_delete_iscsit7</td>
<td>FAIL 6518741</td>
</tr>
<tr>
<td>4 tc_delete_iscsit8</td>
<td>FAIL 6518741</td>
</tr>
<tr>
<td>5 tc_create_iscsit1</td>
<td>PASS</td>
</tr>
<tr>
<td>6 tc_create_iscsit2</td>
<td>PASS</td>
</tr>
<tr>
<td>7 tc_create_iscsit3</td>
<td>PASS</td>
</tr>
<tr>
<td>8 tc_create_iscsit4</td>
<td>PASS</td>
</tr>
<tr>
<td>9 tc_create_iscsit5</td>
<td>PASS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>User</th>
<th>jwtest</th>
<th>SCA</th>
<th>sun</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Run</td>
<td>5/5</td>
<td>2/4</td>
<td>3/5</td>
</tr>
</tbody>
</table>
Journal File
Log File

Copyright © 2008 Sun Microsystems, Inc.
(CONNECT) -26/09/07 13:44:15-
spawn telnet xxxxxx 10003

(LOGOUT) -26/09/07 13:44:15-
(LOGIN) -26/09/07 13:44:15-
(RECOVER) -26/09/07 13:44:15-
Trying xxx.xxx.xxx.151...
  Connected to xxxxxx.
  Escape character is '\'.

roentgen console login:
roentgen console log
-26/09/07 13:44:15- At login prompt now

in:
-26/09/07 13:44:16- This is the 1 attempt to send login (root)
roentgen console login: root

-26/09/07 13:44:16- login has already been sent, waiting for password pattern

Password:
-26/09/07 13:44:16- This is the 1 attempt to send password
Last login: Wed Sep 26 13:14:45 on console
Sep 26 13:26:16 roentgen login: ROOT LOGIN /dev/console
Sun Microsystems Inc.  SunOS 5.11 snv_71 Aug. 10, 2007
SunOS Internal Development:  root 2007-08-10 [onnv_71]
bfu'ed from /net/xxxxxx.xxxxxx/install/bfu/snv_71-jwtest-1190780141778/sparc on 2007-09-26
Sun Microsystems Inc.  SunOS 5.11 snv_71 Aug. 07, 2007
SunOS
-26/09/07 13:44:17- You are now logged on the test machine
Internal Development:  root 2007-08-07 [onnv_71]
You have new mail.
#
-26/09/07 13:44:19- Hash prompt detected, setting prompt to EARTH$1='EARTH'
Known Bug Report

The current versions of Tcl & Tk in Solaris are too old. Newer versions are needed by the Mercurial Plugin for NetBeans, which is currently under development.
<table>
<thead>
<tr>
<th>Run Name</th>
<th>Status</th>
<th>Architectures</th>
<th>Tests</th>
<th>Date of Submission</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>f1</td>
<td>Scheduled</td>
<td>Sparc</td>
<td>findleaks zfstest</td>
<td>2007-09-25 21:17:18 PDT</td>
<td></td>
</tr>
<tr>
<td>performance</td>
<td>Running</td>
<td>Sparc</td>
<td>bonnie2 iperf202 gl_boottime nttcp3 sw4_boot lmbench-3-0-a4 netperf3 smbtorque_tmpfs libmicrov12</td>
<td>2007-09-25 21:16:44 PDT</td>
<td></td>
</tr>
<tr>
<td>p1</td>
<td>Scheduled</td>
<td>Sparc</td>
<td>gl_boottime sw4_boot</td>
<td>2007-09-25 21:17:42 PDT</td>
<td></td>
</tr>
<tr>
<td>functional</td>
<td>Completed</td>
<td>Sparc</td>
<td>findleaks iSCSI nfsv4_test sharemgr sharemnt zfstest</td>
<td>2007-09-25 21:15:41 PDT</td>
<td></td>
</tr>
</tbody>
</table>
### Results for Test Run (performance)

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Architecture</th>
<th>Platform</th>
<th>Queue length</th>
<th>Options</th>
<th>Result</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>bonnie2</td>
<td>sparc</td>
<td>E250, 2 x 296MHz, 640 MB</td>
<td>0</td>
<td>none</td>
<td>RUNNING NA</td>
<td>NA</td>
</tr>
<tr>
<td>iperf202</td>
<td>sparc</td>
<td>T1000, 32 x 1000MHz, 16376 MB</td>
<td>1</td>
<td>none</td>
<td>SCHEDULED NA</td>
<td>NA</td>
</tr>
<tr>
<td>gl_boottime</td>
<td>sparc</td>
<td>Ultra 45, 2 x 1600MHz, 2048 MB</td>
<td>0</td>
<td>none</td>
<td>SCHEDULED NA</td>
<td>NA</td>
</tr>
<tr>
<td>httcp3</td>
<td>sparc</td>
<td>V490, 8 x 1050MHz, 32768 MB</td>
<td>0</td>
<td>none</td>
<td>PASS</td>
<td>Details</td>
</tr>
<tr>
<td>sw4_boot</td>
<td>sparc</td>
<td>SunBlade 1000, 2 x 750MHz, 1024 MB</td>
<td>0</td>
<td>none</td>
<td>PASS</td>
<td>Details</td>
</tr>
<tr>
<td>imbench-3-0-a4</td>
<td>sparc</td>
<td>T2000, 32 x 1200MHz, 16376 MB</td>
<td>0</td>
<td>none</td>
<td>SCHEDULED NA</td>
<td>NA</td>
</tr>
<tr>
<td>netperf3</td>
<td>sparc</td>
<td>V240, 2 x 1002MHz, 2048 MB</td>
<td>0</td>
<td>none</td>
<td>PASS</td>
<td>Details</td>
</tr>
<tr>
<td>smb torture</td>
<td>sparc</td>
<td>V210, 2 x 1002MHz, 2048 MB</td>
<td>0</td>
<td>none</td>
<td>PASS</td>
<td>Details</td>
</tr>
<tr>
<td>libmicro12</td>
<td>sparc</td>
<td>V240, 2 x 1002MHz, 1024 MB</td>
<td>0</td>
<td>none</td>
<td>PASS</td>
<td>Details</td>
</tr>
</tbody>
</table>
Results for Test Run (performance) Test (sw4_boot) Arch (sparc)

Below are the summaries for the results obtained for all the metrics tested so far, please review:

<table>
<thead>
<tr>
<th>System Description</th>
<th>Benchmark</th>
<th>jwtest-1190780204833</th>
<th>VS jwtest-1190780204833-base</th>
<th>% Standard Deviation</th>
<th>TTest</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>V490 8 x 1050MHz</td>
<td>NTTCP3 Local TCP</td>
<td>7555.00</td>
<td>7544.00</td>
<td>0.23% [6 res]</td>
<td>0.52</td>
<td>0.15</td>
</tr>
<tr>
<td></td>
<td>NTTCP3 Remote TCP</td>
<td>7554.89</td>
<td>7543.92</td>
<td>0.23% [6 res]</td>
<td>0.53</td>
<td>0.15</td>
</tr>
<tr>
<td></td>
<td>NTTCP3 Remote UDP</td>
<td>7141.39</td>
<td>7138.07</td>
<td>0.29% [6 res]</td>
<td>0.78</td>
<td>0.05</td>
</tr>
<tr>
<td>Boottime</td>
<td>SunBlade 1000 2 x 750MHz</td>
<td>102.56</td>
<td>102.21</td>
<td>1.15% [60 res]</td>
<td>0.14</td>
<td>-0.34</td>
</tr>
<tr>
<td>Boottime (with dtrace)</td>
<td></td>
<td>110.7B</td>
<td>110.58</td>
<td>0.63% [20 res]</td>
<td>0.41</td>
<td>-0.19</td>
</tr>
</tbody>
</table>

User: jwtest
SCA: sun
Test Runs: 0 / 5
Self-Service Testing Help

Upload

Q. How do I create a BFU?
A. For information on how to create BFU archives, see section 4.4.2 of the Developer's Reference.

Q. How do I create a BFU tar archive?
A. Once you have created your BFU archive you will need to tar up the directory. For example:
   # tar cvf jack_snv75_sparc_debug_bugfix.tar bfudir

Q. What's the recommended naming convention for BFU tar archives?
A. [Username]_[Build]_[Arch]_[Type]_[Short Description].tar (ie. jack_snv75_sparc_debug_bugfix.tar)

Q. What BFU to Upload?
A. For Functional tests, Debug BFU archives must be uploaded. For Performance tests, Non-Debug BFU archives must be uploaded. Two BFU archives are required to do performance comparisons. Use the Browse button to select the tarred BFU archive you created.

Q. What are the BFU architecture and type?
A. Prior to uploading a BFU archive, the architecture (ie. Sparc or X86/X64) and the build type (ie. Debug or Non-Debug) must be indicated. The architecture selection determines what kind of platform the BFU
Test Farm Demo

• Home

• Reserve
  • Test Machine Specs
  • Test Machine Details
  • Confirm System Reservation
  • Confirm Joining Waitlist

• Help

• Accessing a System
  • Network Login
Test Farm Home

The OpenSolaris Test Farm provides OpenSolaris contributors remote access to various hardware platforms, so they can test their software prior to integration into the OpenSolaris code base.

The OpenSolaris Test Farm is managed by the Sun Microsystems Solaris QE and Solaris Labs organizations.

Test Farm User Access Requirements

1. OpenSolaris.org user name
2. OpenSolaris contributor number
3. OpenSolaris sponsor approval
## Reserve Test Farm Systems

<table>
<thead>
<tr>
<th>Spec</th>
<th>Type</th>
<th>Proc</th>
<th>Arch</th>
<th>Hostname</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Spec</td>
<td>t2000</td>
<td>Sparc</td>
<td>sun4v</td>
<td>t2000-010135</td>
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<td>Spec</td>
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<td>amd64</td>
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<th>Proc</th>
<th>CPU#</th>
<th>Memory</th>
<th>Days</th>
<th>Free</th>
<th>User</th>
<th>Project</th>
<th>Status</th>
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<td>3</td>
<td>2007-09-27</td>
<td>jwalker</td>
<td>Migration Project</td>
<td>Leave Waitlist</td>
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<td>Sparc</td>
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<td>16 GB</td>
<td>5</td>
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<td>connection test</td>
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<td>test</td>
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<td>Join Waitlist</td>
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</table>

**User** | jwtest
---|---
**SCA** | sun
**Reservations** | 1 / 2
**Waitlists** | 1 / 2
Hardware Specs
## System Details

<table>
<thead>
<tr>
<th>Hostname</th>
<th>Type</th>
<th>Processor</th>
<th>Arch</th>
<th>CPUS#</th>
<th>CPUSpeed</th>
<th>Memory</th>
<th>Disk#</th>
<th>DiskSize</th>
<th>NIC#</th>
<th>Health</th>
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</thead>
<tbody>
<tr>
<td>t2000-010129</td>
<td>t2000</td>
<td>Sparc</td>
<td>sun4v</td>
<td>32</td>
<td>1.2 GHZ</td>
<td>16 GB</td>
<td>2</td>
<td>68 GB</td>
<td>2</td>
<td>OK</td>
</tr>
<tr>
<td>MaxDays</td>
<td>Status</td>
<td>SubStatus</td>
<td>User</td>
<td>Project</td>
<td>StartDate</td>
<td>Duration</td>
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<td></td>
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<tr>
<td>3</td>
<td>Reserved</td>
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### Waitlist

<table>
<thead>
<tr>
<th>User</th>
<th>ProjectedStartDate</th>
<th>Duration</th>
<th>Project</th>
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</thead>
<tbody>
<tr>
<td>jwtest</td>
<td>2007-09-30</td>
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<td>zfs project</td>
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### System Reservation History

<table>
<thead>
<tr>
<th>User</th>
<th>Project</th>
<th>OS Build</th>
<th>Start Date</th>
<th>End Date</th>
<th>Duration</th>
<th>End Type</th>
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</thead>
<tbody>
<tr>
<td>jwalker</td>
<td>test</td>
<td>svr_72</td>
<td>2007-09-24</td>
<td>2007-09-27</td>
<td>4 Days</td>
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<tr>
<td>jwalker</td>
<td>test</td>
<td>current</td>
<td>2007-09-24</td>
<td>2007-09-24</td>
<td>1 Days</td>
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</table>

Report issues to [Test Farm Admin](mailto:test_farm_admin@opensolaris.org)
Confirm System Reservation

<table>
<thead>
<tr>
<th>Hostname</th>
<th>Type</th>
<th>Processor</th>
<th>Arch</th>
<th>CPUS#</th>
<th>CPUSSpeed</th>
<th>Memory</th>
<th>Disk#</th>
<th>DiskSize</th>
<th>NIC#</th>
<th>Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>t2000-010135</td>
<td>t2000</td>
<td>Sparc</td>
<td>sun4v</td>
<td>32</td>
<td>1.2 GHZ</td>
<td>16 GB</td>
<td>2</td>
<td>68 GB</td>
<td>2</td>
<td>OK</td>
</tr>
</tbody>
</table>

MaxDays | Status     | SubStatus | User | Project | StartDate | Duration |
---------|------------|-----------|------|---------|-----------|----------|
3        | Reserved   | confirm   | jwtest |         | 2007-09-27 |          |

Enter Reservation Information

<table>
<thead>
<tr>
<th>Root Password</th>
<th>Confirm Password</th>
<th>Project</th>
<th>Duration</th>
<th>Build</th>
</tr>
</thead>
<tbody>
<tr>
<td>****</td>
<td>****</td>
<td>nfs project</td>
<td>3</td>
<td>snv_72</td>
</tr>
</tbody>
</table>

Note. Root password should be different than your opensolaris.org password and other passwords you use.

Report issues to Test Farm Admin
Test Farm Help

Reservations

Q. How long can I reserve a test system?
A. Each test system has a reservation duration limit expressed in days. This limit is shown in the reservation table.

Q. How many test systems can I reserve?
A. Each user has a reservation limit. This limit is shown in the sidebar table along with the current reservation count.

Q. What happens after I confirm a reservation?
A. The test system will be setup according to your selections, and you will be notified by email when the system is ready for use.

Q. When does my reservation start?
A. To ensure you get the full duration amount you selected, the reservation start date is updated when the system is ready for use after it has been setup.
% ssh osuser@199.12.155.999
+---------------------------------------------------------------------+
| This system is for the use of authorized users only, as indicated     |
| in the OpenSolaris Test Farm Terms and Conditions. All activities    |
| on this system may be monitored and recorded. Any misuse of this     |
| system can be grounds for permanent loss of access to this service. |
+---------------------------------------------------------------------+
| Send questions or report abuses to testfarm-admin@opensolaris.org   |
+---------------------------------------------------------------------+
Password:
Last login: Tue Feb 12 04:52:50 2008 from 129.158.226.122
Sun Microsystems Inc. SunOS 5.11 snv_78 October 2007
-bash-3.2$ uname -a
SunOS x4600-010101 5.11 snv_78 i86pc i386
-bash-3.2$