

SPECweb99 Result

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Hewlett-Packard Company: ProLiant DL360 G3
Red Hat: RHCA 2.2

SPECweb99 = 5176

Test Date: Aug-2003
Tester: Hewlett-Packard Company

Hardware Avail: Sep-2003 OS Avail: Jul-2003 HTTP Software Avail: Jul-2003 Sup. Software Avail: Jul-2003 SPEC license #: 3

Hardware

Vendor: Hewlett-Packard Company
Model: ProLiant DL360 G3
Processor: 3060MHz Intel Xeon
Processors: 2 cores, 2 chips, 1 core/chip
Primary Cache: 12KBI+8KBD on chip
Secondary Cache: 512KB
Other Cache: 1024KB L3
Memory: 8192MB
Disk Subsystem: 2x36.4GB SCSI (15K rpm)
(1 Hardware RAID 0 drive)
Disk Controllers: HP Smart Array 5i Plus
Other Hardware: Anritsu MultiFlow 5128 Switch

Software

Operating System: Red Hat Linux 8.0
File System: ext2
Other Software: None

HTTP Software

Vendor: Red Hat
HTTP Software: RHCA 2.2
API: RHCA user API
Server Cache: None
Log Mode: Binary CLF

Test Sponsor

Test Date: Aug-2003
Tested By: Hewlett-Packard Company
SPEC License: 3

Network

of Controllers: 4
Network Controllers: 2 Integrated NC7181, 2 Intel PRO/1000 MT Server Adapter
of Nets: 4
Type of Nets: Gigabit Ethernet
Network Speed: 1 Gb/s
MSL (sec): 30 (Non RFC1122)
Time-Wait (sec): 60 (Non RFC1122)
MTU: 1500

Clients

of Clients: 12
Model: Compaq ProLiant DL380
Processor: 1.0GHz Intel Pentium III
of Processors: 2
Memory: 128MB
Network Controller: Alteon ACENIC 1000SX
Operating System: Red Hat 7.3
Compiler: gcc 2.96

Notes/Tuning Information

SUT Notes

1 partition for OS and logs
1 partition for fileset

Operating System Notes

Tuning parameters:
ulimit -n 10000, set number of open files to 10000, default 8192
net.core.optmem_max=10000000, maximum amount of option memory buffers, default 10240
net.core.rmem_default=131071, default receive socket buffer size, default 65535
net.core.rmem_max=131071, maximum receive socket buffer size, default 131071
net.core.wmem_default=10000000, default send socket buffer size, default 65535
net.core.wmem_max=10000000, maximum send socket buffer size, default 131071
net.core.hot_list_length=300000, maximum number of skb-heads to be cached, default 128
net.core.netdev_max_backlog=300000, number of unprocessed input packets before kernel starts dropping them, default 300
net.ipv4.tcp_max_tw_buckets=2000000, set TCP time-wait buckets pool size, default 180000
net.ipv4.tcp_rmem=10000000 10000000 10000000, maximum TCP read-buffer space allocatable, default 4096 87380 174760
net.ipv4.tcp_wmem=10000000 10000000 10000000, maximum TCP write-buffer space allocatable, default 4096 16384 131072
net.ipv4.tcp_mem=10000000 10000000 10000000, maximum TCP buffer space allocatable, default 195584 196096 196608
net.ipv4.tcp_timestamps=0, turns TCP timestamp support off, default on

HTTP Software Notes

net.tux.cgiroot=/, cgi root check; default /var/www/tux/cgiroot/
net.tux.cgi_uid=99, userid for cgi scripts; default -1
net.tux.cgi_gid=99, groupid for cgi scripts; default -1
net.tux.mode_allowed=255, allowed file permission bits, default 4
net.tux.mode_forbidden=2, forbidden file permission bits, default 0
net.tux.documentroot=/web, document root for web server, default /var/www/tux

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Notes/Tuning Information (Continued)

HTTP Software Notes (Continued)

net.tux.logging=1, enable logging, default off

HTTP API Notes

Compiled with gcc 3.2 20020903 (Red Hat Linux 8.0 3.2-7)
-fomit-frame-pointer -mcpu=i686 -march=i686 -O2 -Wall -shared
-fomit-frame-pointer -mcpu=i686 -march=i686 -O2 -Wall -fPIC
Flag description in HP-20030317-APIFlags.txt

Network Notes

txqueuelen=20000, transmit queue length, default 100
1 NIC tied to each TUX thread

Client Notes

net.ipv4.ip_local_range=1024 65535

Other Notes

Tuning Disclosure: See Above
Kernel config: HP-20030428-DL360G3.config.txt
Dynamic API: HP-20030303-RHCA.tar.gz