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- campg/s
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- kmemfree
- kmemused

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- rawsck
- tcpcke
- totsck
- udpcke
- rxbys
- rxdrops
- rxmcss
- rxpcks
- txbys
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### I/O
- bread/s
- bwrtn/s

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**Paging**

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- call/s .......................... 323
- getatt/s .......................... 324

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**Intr**

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dentunusd - Number of unused cache entries in the directory cache
file-sz - Number of used file handles
inode-sz - Number of used inode handlers
Load

**cswch/s** - Total number of context switches per second
ldavg-1 - System load average for the last minute. The load average is calculated as the average number of runnable or running tasks (R state), and the number of tasks in uninterruptible sleep (D state) over the specified interval. The exact formula is: \( \text{load}(t) = n + (\text{load}(t-1) - n) / e^{\text{interval}/(\text{min} \times 60)} \)
• \textit{load(t)}: load average at a time of \( t \)
• \( n \): number of threads in running or uninterruptible state
• \textit{interval}: calculate interval (seconds). 5 seconds in RHEL
• \textit{min}: average time (minute)

It is a moving average function. See \textit{kernel/sched.c:calc\_load()} for more details on the implementation on RHEL 5 and 6. More recent kernels moved it to \textit{kernel/sched/proc.c:calc\_load()}.
Load

**ldavg-5** - System load average for the past 5 minutes
Load

ldavg-15 - System load average for the past 15 minutes
plist-sz - Number of tasks in the task list
Load

proc/s time series

proc/s - Total number of tasks created per second
Load

runq-sz time series

runq-sz - Run queue length (number of tasks waiting for run time)
Load

%idle 1/2 time series

%idle - Percentage of time that the CPU or CPUs were idle and the system did not have an outstanding disk I/O request
%idle - Percentage of time that the CPU or CPUs were idle and the system did not have an outstanding disk I/O request
Load

%\text{iowait} - Percentage of time that the CPU or CPUs were idle during which the system had an outstanding disk I/O request
%iowait - Percentage of time that the CPU or CPUs were idle during which the system had an outstanding disk I/O request.
Load

**%nice 1/2 time series**

- **%nice** - Percentage of CPU utilization that occurred while executing at the user level with nice priority.
%nice - Percentage of CPU utilization that occurred while executing at the user level with nice priority
Load

%system 1/2 time series

%system 1/2 value

Time

%system - Percentage of CPU utilization that occurred while executing at the system level (kernel). Note that this field includes time spent servicing hardware and software interrupts
%system - Percentage of CPU utilization that occurred while executing at the system level (kernel). Note that this field includes time spent servicing hardware and software interrupts.
%user - Percentage of CPU utilization that occurred while executing at the user level (application). Note that this field includes time spent running virtual processors.
%user - Percentage of CPU utilization that occurred while executing at the user level (application). Note that this field includes time spent running virtual processors.
Load

i000/s [timer] time series

int/s - Interrupts per second
int/s - Interrupts per second
Load

i054/s [eth1-rx-8] time series

int/s - Interrupts per second
Load

i059/s [qla2xxx (default)] time series

int/s - Interrupts per second
int/s - Interrupts per second
Load

i061/s [eth0-rx-3] time series

int/s - Interrupts per second
Load

i062/s [eth1-rx-9] 1/2 time series

int/s - Interrupts per second
Load

i062/s [eth1-rx-9] 2/2 time series

int/s - Interrupts per second
Load

int/s - Interrupts per second
Load

i068/s [qla2xxx (rsp_q)] 1/2 time series

int/s - Interrupts per second
Load

**i068/s [qla2xxx (rsp_q)] 2/2 time series**

**int/s** - Interrupts per second
Load

i069/s [eth0-rx-4] time series

int/s - Interrupts per second
Load

i070/s [eth1-rx-10] 1/2 time series

int/s - Interrupts per second
Load

i070/s [eth1-rx-10] 2/2 time series

int/s - Interrupts per second
Load

i077/s [eth0-rx-5] time series

int/s - Interrupts per second
Load

i078/s [eth1-rx-11] 1/2 time series

int/s - Interrupts per second
Load

**i078/s [eth1-rx-11] 2/2 time series**

- **int/s** - Interrupts per second

- **crashA**
- **crashB**

**Graphical Elements:**
- Multiple colored lines representing different data series.
- Time axis labeled from 02-01 03:00 to 02-01 21:00.
Load

i083/s [qla2xxx (default)] time series

int/s - Interrupts per second
Load

i084/s [qla2xxx (default)] time series

int/s - Interrupts per second
Load

i085/s [eth0-rx-6] time series

int/s - Interrupts per second
Load

int/s - Interrupts per second
Load

int/s - Interrupts per second
int/s - Interrupts per second
**Load**

**int/s** - Interrupts per second
Load

i092/s [qla2xxx (rsp_q)] 2/2 time series

int/s - Interrupts per second
Load

i093/s [eth0-rx-7] time series

int/s - Interrupts per second
Load

i094/s [eth1-rx-13] 1/2 time series

Time

int/s - Interrupts per second
Load

i094/s [eth1-rx-13] 2/2 time series

int/s - Interrupts per second
Load

i101/s [eth0-rx-8] time series

`int/s` - Interrupts per second
Load

i102/s [eth1-rx-14] 1/2 time series

int/s - Interrupts per second
Load

**i102/s [eth1-rx-14] 2/2 time series**

- **int/s** - Interrupts per second

Graph showing time series of **i102/s [eth1-rx-14]** with labels for crashA and crashB.
Load

i107/s [qla2xxx (default)] time series

int/s - Interrupts per second
Load

### i108/s [qla2xxx (default)] time series

- **int/s**: Interrupts per second

#### Crash Events
- Crash A
- Crash B

---

**Legend**

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**int/s** - Interrupts per second
Load

i109/s [eth0-rx-9] time series

int/s - Interrupts per second
int/s - Interrupts per second
Load

**i110/s [eth1-rx-15] 2/2 time series**

*int/s* - Interrupts per second

**crashA**

**crashB**
Load

i115/s [qla2xxx (rsq_q)] time series

int/s - Interrupts per second
Load

i117/s [eth0-rx-10] time series

int/s - Interrupts per second
Load

i131/s [qla2xxx (default)] time series

int/s - Interrupts per second
Load

i132/s [qla2xxx (default)] time series

int/s - Interrupts per second
Load

**i133/s [eth0-rx-12] time series**

**int/s** - Interrupts per second
Load

i134/s [eth2-TxRx-0] 1/2 time series

interrupts per second

int/s - Interrupts per second
Load

i134/s [eth2-TxRx-0] 2/2 time series

int/s - Interrupts per second
Load

int/s - Interrupts per second
int/s - Interrupts per second
Load

i140/s [qla2xxx (rsp_q)] 1/2 time series

int/s - Interrupts per second
Load

**i140/s [qla2xxx (rsp_q)] 2/2 time series**

**int/s** - Interrupts per second
Load

i141/s [eth0-rx-13] time series

int/s - Interrupts per second
Load

i142/s [eth2-rx-1] 1/2 time series

Time

int/s - Interrupts per second
Load

```
Load
i142/s [eth2-rx-1] 2/2
```

```
int/s - Interrupts per second
```
Load

i149/s [eth0-rx-14] time series

int/s - Interrupts per second
int/s - Interrupts per second
Load

int/s - Interrupts per second
Load

i155/s [qla2xxx (default)] time series

int/s - Interrupts per second
Load

i157/s [eth0-rx-15] time series

int/s - Interrupts per second
int/s - Interrupts per second
Load

i163/s [qla2xxx (rsp_q)] 1/2 time series

int/s - Interrupts per second
Load

i163/s [qla2xxx (rsp_q)] 2/2 time series

int/s - Interrupts per second
Load

i166/s [eth2-rx-4] time series

int/s - Interrupts per second
Load

i174/s [eth2-rx-5] time series

int/s - Interrupts per second
Load

i177/s [eth2-rx-6] time series

int/s - Interrupts per second
Load

i179/s [qla2xxx (default)] time series

int/s - Interrupts per second
Load

i181/s [eth1-TxRx-0] time series

**int/s** - Interrupts per second
Load

i182/s [eth2-rx-7] time series

int/s - Interrupts per second
Load

i187/s [qla2xxx (rsp_q)] 1/2 time series

int/s - Interrupts per second
int/s - Interrupts per second
Load

i189/s [eth1-rx-1] 1/2 time series

int/s - Interrupts per second
Load

i189/s [eth1-rx-1] 2/2 time series

int/s - Interrupts per second
Load

i190/s [eth2-rx-8] time series

int/s - Interrupts per second
Load

i197/s [eth1-rx-2] time series

**int/s** - Interrupts per second
Load

i198/s [eth2-rx-9] time series

int/s - Interrupts per second
Load

i202/s [uhci _hcd:usb6 ata _piix hpilo] time series

int/s - Interrupts per second
Load

i203/s [qla2xxx (default)] time series

int/s - Interrupts per second
Load

i205/s [eth1-rx-3] time series

Time

int/s - Interrupts per second
i206/s [eth2-rx-10] time series

int/s - Interrupts per second
int/s - Interrupts per second
Load

int/s - Interrupts per second
Load

i211/s [qla2xxx (rsp_q)] 2/2 time series

int/s - Interrupts per second
Load

i213/s [eth1-rx-4] time series

int/s - Interrupts per second
Load

i214/s [eth2-rx-11] time series

int/s - Interrupts per second
Load

i221/s [eth1-rx-5] time series

Time

int/s - Interrupts per second
Load

i222/s [eth2-rx-12] time series

int/s - Interrupts per second
**Load**

**i227/s [qla2xxx (default)] time series**

`int/s` - Interrupts per second
Load

i228/s [eth0-TxRx-0] time series

int/s - Interrupts per second
Load

i229/s [eth1-rx-6] time series

int/s - Interrupts per second
Load

i235/s [qla2xxx (rsp_q)] 1/2 time series

int/s - Interrupts per second
Load

i235/s [qla2xxx (rsp_q)] 2/2 time series

int/s - Interrupts per second
Load

i236/s [eth0-rx-1] time series

int/s - Interrupts per second
Load

i237/s [eth1-rx-7] time series

int/s - Interrupts per second
Load

i238/s [eth3] time series

int/s - Interrupts per second
Network

ip-frag - Number of IP fragments currently in use
Network

rawsck - Number of RAW sockets currently in use

rawsck time series

02-01 03:00, 02-01 06:00, 02-01 09:00, 02-01 12:00, 02-01 15:00, 02-01 18:00, 02-01 21:00
Network
tcpsck - Number of TCP sockets currently in use
Network

totsck - Total number of sockets used by the system
udpsck - Number of UDP sockets currently in use
Network

rxbyt/s - Total number of bytes received per second
Network

rxdrop/s time series

rxdrop/s - Number of received packets dropped per second because of a lack of space in Linux buffers
rxmcs/s - Number of multicast packets received per second
Network

rxpck/s - Total number of packets received per second
txbyt/s - Total number of bytes transmitted per 'regexp': _number_with_decimals_regexp, second
Network

**txpck/s** - Total number of packets transmitted per second
%memused - Percentage of used memory
Memory

bufpg/s time series

bufpg/s - Number of additional memory pages used as buffers by the system per second. A negative value means fewer pages used as buffers by the system.
**campg/s** - Number of additional memory pages cached by the system per second. A negative value means fewer pages in the cache.
Memory

frmpg/s - Number of memory pages freed by the system per second. A negative value represents a number of pages allocated by the system. Note that a page has a size of 4 kB or 8 kB according to the machine architecture
**kbuffers** - Amount of memory used as buffers by the kernel in kilobytes
**Memory**

**kbcached** - Amount of memory used to cache data by the kernel in kilobytes
Memory

**kbmemfree** - Amount of free memory available in kilobytes
Memory

kbmemused - Amount of used memory in kilobytes. This does not take into account memory used by the kernel itself.
bread/s - Total amount of data read from the devices in blocks per second. Blocks are equivalent to sectors with 2.4 kernels and newer and therefore have a size of 512 bytes. With older kernels, a block is of indeterminate size.
bwrtn/s - Total amount of data written to devices in blocks per second
rtps - Total number of read requests per second issued to physical devices
**tps** - Indicates the number of transfers per second that were issued to the device. Multiple logical requests can be combined into a single I/O request to the device. A transfer is of indeterminate size.
wtp - Total number of write requests per second issued to physical devices
%util - Percentage of CPU time during which I/O requests were issued to the device (bandwidth utilization for the device). Device saturation occurs when this value is close to 100%
%util 2/21 - Percentage of CPU time during which I/O requests were issued to the device (bandwidth utilization for the device). Device saturation occurs when this value is close to 100%
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I/O

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**avgqu-sz** - The average queue length of the requests that were issued to the device.
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I/O

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avgqu-sz - The average queue length of the requests that were issued to the device.
avgqu-sz - The average queue length of the requests that were issued to the device.
avgrq-sz - The average size (in sectors) of the requests that were issued to the device.
**avgrq-sz** - The average size (in sectors) of the requests that were issued to the device.
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avgrq-sz - The average size (in sectors) of the requests that were issued to the device.
I/O

**avgrq-sz 16/22 time series**

**avgrq-sz** - The average size (in sectors) of the requests that were issued to the device.
avgrq-sz - The average size (in sectors) of the requests that were issued to the device.
I/O

avgrq-sz - The average size (in sectors) of the requests that were issued to the device.
avgrq-sz - The average size (in sectors) of the requests that were issued to the device.
I/O

avgrq-sz - The average size (in sectors) of the requests that were issued to the device.
avgrq-sz - The average size (in sectors) of the requests that were issued to the device.
**avgrq-sz** - The average size (in sectors) of the requests that were issued to the device.
**await** - The average time (in milliseconds) for I/O requests issued to the device to be served. This includes the time spent by the requests in queue and the time spent servicing them.
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**I/O**

**await** - The average time (in milliseconds) for I/O requests issued to the device to be served. This includes the time spent by the requests in queue and the time spent servicing them.
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I/O

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**await** - The average time (in milliseconds) for I/O requests issued to the device to be served. This includes the time spent by the requests in queue and the time spent servicing them.
rd_sec/s - Number of sectors read from the device. The size of a sector is 512 bytes.
rd_sec/s - Number of sectors read from the device. The size of a sector is 512 bytes.
I/O

rd_sec/s - Number of sectors read from the device. The size of a sector is 512 bytes.
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rd_sec/s - Number of sectors read from the device. The size of a sector is 512 bytes.
**I/O**

**rd Sec/s 8/21**

- Number of sectors read from the device. The size of a sector is 512 bytes.
I/O

rd_sec/s 9/21 time series

- Number of sectors read from the device. The size of a sector is 512 bytes.
I/O

rd_sec/s - Number of sectors read from the device. The size of a sector is 512 bytes.
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rd_sec/s - Number of sectors read from the device. The size of a sector is 512 bytes.
rd_sec/s - Number of sectors read from the device. The size of a sector is 512 bytes.
I/O

rd_sec/s 14/21 - Number of sectors read from the device. The size of a sector is 512 bytes.
I/O

**rd_sec/s 15/21** - Number of sectors read from the device. The size of a sector is 512 bytes.
I/O

rd_sec/s - Number of sectors read from the device. The size of a sector is 512 bytes.
rd_sec/s - Number of sectors read from the device. The size of a sector is 512 bytes.
**I/O**

- **rd_sec/s**: Number of sectors read from the device. The size of a sector is 512 bytes.
I/O

rd_sec/s - Number of sectors read from the device. The size of a sector is 512 bytes.
rd_sec/s - Number of sectors read from the device. The size of a sector is 512 bytes.
**rd_sec/s 21/21 time series**

- **rd_sec/s**: Number of sectors read from the device. The size of a sector is 512 bytes.

- **crashA** and **crashB** events are indicated on the graph.
svctm - The average service time (in milliseconds) for I/O requests that were issued to the device. Warning! Do not trust this field any more. This field will be removed in a future sysstat version.
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tps - Indicates the number of transfers per second that were issued to the device. Multiple logical requests can be combined into a single I/O request to the device. A transfer is of indeterminate size.
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I/O

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wr_sec/s - Number of sectors written to the device. The size of a sector is 512 bytes.
The graph shows the time series of `wr_sec/s` for different devices. The X-axis represents time, and the Y-axis represents the `wr_sec/s` value. There are two notable crashes labeled as `crashA` and `crashB` in the graph.

**wr_sec/s** - Number of sectors written to the device. The size of a sector is 512 bytes.
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I/O

**wr_sec/s** - Number of sectors written to the device. The size of a sector is 512 bytes.
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**wr_sec/s** - Number of sectors written to the device. The size of a sector is 512 bytes.
I/O

wr_sec/s 13/21

wr_sec/s 13/21 time series

wr_sec/s - Number of sectors written to the device. The size of a sector is 512 bytes.
wr_sec/s - Number of sectors written to the device. The size of a sector is 512 bytes.
wr_sec/s - Number of sectors written to the device. The size of a sector is 512 bytes.
**wr_sec/s** - Number of sectors written to the device. The size of a sector is 512 bytes.
I/O

wr_sec/s 17/21 time series

wr_sec/s 17/21 value

02:01:03:00 02:01:06:00 02:01:09:00 02:01:12:00 02:01:15:00 02:01:18:00 02:01:21:00

crashA

crashB

wr_sec/s - Number of sectors written to the device. The size of a sector is 512 bytes.
I/O

wr_sec/s - Number of sectors written to the device. The size of a sector is 512 bytes.
I/O

wr_sec/s 19/21 time series

wr_sec/s 19/21 value

Time

dev135-1424, dev253-2, dev253-8, dev253-27, dev253-80, dev253-85, dev253-90, dev253-95, dev253-100, dev253-105, dev253-110, dev253-115

dev135-1440, dev253-3, dev253-11, dev253-28, dev253-81, dev253-86, dev253-91, dev253-96, dev253-101, dev253-106, dev253-111, dev253-110

dev135-1456, dev253-4, dev253-12, dev253-29, dev253-82, dev253-87, dev253-92, dev253-97, dev253-102, dev253-107, dev253-112, dev253-117

dev135-1472, dev253-5, dev253-16, dev253-33, dev253-83, dev253-88, dev253-93, dev253-98, dev253-103, dev253-108, dev253-113, dev253-118

dev253-1, dev253-6, dev253-23, dev253-36, dev253-84, dev253-89, dev253-94, dev253-99, dev253-104, dev253-109, dev253-114, dev253-119

wr_sec/s - Number of sectors written to the device. The size of a sector is 512 bytes.
**wr_sec/s -** Number of sectors written to the device. The size of a sector is 512 bytes.
wr_sec/s - Number of sectors written to the device. The size of a sector is 512 bytes.
Paging

**fault/s** - Number of page faults (major + minor) made by the system per second. This is not a count of page faults that generate I/O, because some page faults can be resolved without I/O.
Paging

majflt/s time series

majflt/s - Number of major faults the system has made per second, those which have required loading a memory page from disk
pgpgin/s - Total number of kilobytes the system paged in from disk per second. Note: With old kernels (2.2.x) this value is a number of blocks per second (and not kilobytes)
**Paging**

**pgpgout/s time series**

**pgpgout/s** - Total number of kilobytes the system paged out to disk per second. Note: With old kernels (2.2.x) this value is a number of blocks per second (and not kilobytes)
NFS

access/s - Number of "access" RPC calls made per second
NFS

call/s time series

call/s - Number of RPC requests made per second
NFS

getatt/s time series

getatt/s - Number of "getattr" RPC calls made per second
**Swap**

**kbswpfree** - Amount of free swap space in kilobytes

Diagram: `kbswpfree` time series

- `kbswpfree` value
- Time: 02-01 03:00 to 02-01 21:00
- Graph shows the amount of free swap space over time with two crash points marked as `crashA` and `crashB`. The value remains approximately constant at around 239000000 kilobytes.