## slab

What: /sys/kernel/slab

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The /sys/kernel/slab directory contains a snapshot of the

internal state of the SLUB allocator for each cache. Certain

files may be modified to change the behavior of the cache (and

any cache it aliases, if any).

/sys/kernel/slab目录包含每个缓存的SLUB分配器的内部状态的快照。某些文件可能被修改以改变缓存（以及任何其它别名的高速缓存）的行为。

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### aliases

What: /sys/kernel/slab/cache/aliases

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The aliases file is read-only and specifies how many caches

have merged into this cache.

别名文件是只读的，并指定多少个高速缓存已合并到此缓存中。

### align

What: /sys/kernel/slab/cache/align

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The align file is read-only and specifies the cache's object

alignment in bytes.

对齐文件是只读的，并以字节为单位指定高速缓存的对象对齐方式。

### alloc\_calls

What: /sys/kernel/slab/cache/alloc\_calls

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The alloc\_calls file is read-only and lists the kernel code

locations from which allocations for this cache were performed.

The alloc\_calls file only contains information if debugging is

enabled for that cache (see Documentation/vm/slub.txt).

alloc\_calls文件是只读的，并列出执行此缓存的分配的内核代码位置。 如果为该缓存启用了调试，则alloc\_calls文件才会包含此信息（请参阅Documentation/vm/slub.txt）。

### alloc\_fastpath

What: /sys/kernel/slab/cache/alloc\_fastpath

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The alloc\_fastpath file shows how many objects have been

allocated using the fast path. It can be written to clear the

current count.

Available when CONFIG\_SLUB\_STATS is enabled.

alloc\_fastpath文件显示使用快速路径分配了多少对象。 可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### alloc\_from\_partial

What: /sys/kernel/slab/cache/alloc\_from\_partial

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The alloc\_from\_partial file shows how many times a cpu slab has

been full and it has been refilled by using a slab from the list

of partially used slabs. It can be written to clear the current

count.

Available when CONFIG\_SLUB\_STATS is enabled.

alloc\_from\_partial文件显示了cpu slab已经满了多少次，并且已经通过使用部分使用的slab list中的slab进行重新填充。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### alloc\_refill

What: /sys/kernel/slab/cache/alloc\_refill

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The alloc\_refill file shows how many times the per-cpu freelist

was empty but there were objects available as the result of

remote cpu frees. It can be written to clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

alloc\_refill文件显示每个cpu freelist为空的次数，但remote cpu释放，才有可用的对象。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### alloc\_slab

What: /sys/kernel/slab/cache/alloc\_slab

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The alloc\_slab file is shows how many times a new slab had to

be allocated from the page allocator. It can be written to

clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

alloc\_slab文件显示了一个新的slab必须从page allocator分配多少次。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### alloc\_slowpath

What: /sys/kernel/slab/cache/alloc\_slowpath

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The alloc\_slowpath file shows how many objects have been

allocated using the slow path because of a refill or

allocation from a partial or new slab. It can be written to

clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

alloc\_slowpath文件显示由于部分或全新的slab的重新填充或分配，使用slowpath分配对象的数量。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### cache\_dma

What: /sys/kernel/slab/cache/cache\_dma

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The cache\_dma file is read-only and specifies whether objects

are from ZONE\_DMA.

Available when CONFIG\_ZONE\_DMA is enabled.

cache\_dma文件是只读的，指定objects是否来自ZONE\_DMA。

启用CONFIG\_ZONE\_DMA时可用。

### cpu\_slabs

What: /sys/kernel/slab/cache/cpu\_slabs

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The cpu\_slabs file is read-only and displays how many cpu slabs

are active and their NUMA locality.

cpu\_slabs文件是只读的，显示有多少cpu slabs是active的以及它们的NUMA位置。

### cpuslab\_flush

What: /sys/kernel/slab/cache/cpuslab\_flush

Date: April 2009

KernelVersion: 2.6.31

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The file cpuslab\_flush shows how many times a cache's cpu slabs

have been flushed as the result of destroying or shrinking a

cache, a cpu going offline, or as the result of forcing an

allocation from a certain node. It can be written to clear the

current count.

Available when CONFIG\_SLUB\_STATS is enabled.

文件cpuslab\_flush显示了由于破坏或缩小缓存，cpu脱机或强制从某个节点分配的结果，高速缓存的cpu slab被刷新了多少次。 可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### ctor

What: /sys/kernel/slab/cache/ctor

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The ctor file is read-only and specifies the cache's object

constructor function, which is invoked for each object when a

new slab is allocated.

ctor文件是只读的，并指定缓存的对象构造函数，当分配新的slab时，它将被每个object调用。

### deactivate\_empty

What: /sys/kernel/slab/cache/deactivate\_empty

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The deactivate\_empty file shows how many times an empty cpu slab

was deactivated. It can be written to clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

deactivate\_empty文件显示空cpu slab被停用的次数。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### deactivate\_full

What: /sys/kernel/slab/cache/deactivate\_full

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The deactivate\_full file shows how many times a full cpu slab

was deactivated. It can be written to clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

deactivate\_full文件显示完整cpu slab被停用的次数。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### deactivate\_remote\_frees

What: /sys/kernel/slab/cache/deactivate\_remote\_frees

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The deactivate\_remote\_frees file shows how many times a cpu slab

has been deactivated and contained free objects that were freed

remotely. It can be written to clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

deactivate\_remote\_frees文件显示了cpu slab已被停用多少次，并且包含远程释放的自由对象。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### deactivate\_to\_head

What: /sys/kernel/slab/cache/deactivate\_to\_head

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The deactivate\_to\_head file shows how many times a partial cpu

slab was deactivated and added to the head of its node's partial

list. It can be written to clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

deactivate\_to\_head文件显示部分cpu slab被停用并添加到其节点的部分列表的头部的次数。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### deactivate\_to\_tail

What: /sys/kernel/slab/cache/deactivate\_to\_tail

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The deactivate\_to\_tail file shows how many times a partial cpu

slab was deactivated and added to the tail of its node's partial

list. It can be written to clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

deactivate\_to\_tail文件显示部分cpu slab被停用多少次，并将其添加到其节点的部分列表的尾部。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### destroy\_by\_rcu

What: /sys/kernel/slab/cache/destroy\_by\_rcu

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The destroy\_by\_rcu file is read-only and specifies whether

slabs (not objects) are freed by rcu.

destroy\_by\_rcu文件是只读的，指定是否通过rcu释放slabs（而不是对象）。

### free\_add\_partial

What: /sys/kernel/slab/cache/free\_add\_partial

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The free\_add\_partial file shows how many times an object has

been freed in a full slab so that it had to added to its node's

partial list. It can be written to clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

free\_add\_partial文件显示了一个对象在完整slab中被释放的次数，以便它被添加到其节点的部分列表中。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### free\_calls

What: /sys/kernel/slab/cache/free\_calls

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The free\_calls file is read-only and lists the locations of

object frees if slab debugging is enabled (see

Documentation/vm/slub.txt).

free\_calls文件是只读的，如果启用了slab调试，则列出对象释放的位置（请参阅Documentation/vm/slub.txt）。

### free\_fastpath

What: /sys/kernel/slab/cache/free\_fastpath

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The free\_fastpath file shows how many objects have been freed

using the fast path because it was an object from the cpu slab.

It can be written to clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

free\_fastpath文件显示使用快速路径释放了多少对象，因为它是来自cpu slab的一个对象。它可以被写入以清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### ree\_frozen

What: /sys/kernel/slab/cache/free\_frozen

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The free\_frozen file shows how many objects have been freed to

a frozen slab (i.e. a remote cpu slab). It can be written to

clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

free\_frozen文件显示已经释放到frozen slab（即remote cpu slab）的对象数量。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### free\_remove\_partial

What: /sys/kernel/slab/cache/free\_remove\_partial

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The free\_remove\_partial file shows how many times an object has

been freed to a now-empty slab so that it had to be removed from

its node's partial list. It can be written to clear the current

count.

Available when CONFIG\_SLUB\_STATS is enabled.

free\_remove\_partial文件显示一个对象已被释放到现在为空的slab的次数，以便它必须从其节点的部分列表中删除。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### free\_slab

What: /sys/kernel/slab/cache/free\_slab

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The free\_slab file shows how many times an empty slab has been

freed back to the page allocator. It can be written to clear

the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

free\_slab文件显示一个空的slab已经释放回页面分配器的次数。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### free\_slowpath

What: /sys/kernel/slab/cache/free\_slowpath

Date: February 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The free\_slowpath file shows how many objects have been freed

using the slow path (i.e. to a full or partial slab). It can

be written to clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

free\_slowpath文件显示使用慢速路径（即完整或部分slab）释放了多少对象。可以写入清除当前计数。

启用CONFIG\_SLUB\_STATS时可用。

### hwcache\_align

What: /sys/kernel/slab/cache/hwcache\_align

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The hwcache\_align file is read-only and specifies whether

objects are aligned on cachelines.

hwcache\_align文件是只读的，指定对象是否在高速缓存行上对齐。

### min\_partial

What: /sys/kernel/slab/cache/min\_partial

Date: February 2009

KernelVersion: 2.6.30

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

David Rientjes <rientjes@google.com>

Description:

The min\_partial file specifies how many empty slabs shall

remain on a node's partial list to avoid the overhead of

allocating new slabs. Such slabs may be reclaimed by utilizing

the shrink file.

min\_partial文件指定在节点的部分列表中保留多少个空格，以避免分配新的slab的开销。这样的slab可以通过利用shrink file来回收。

### object\_size

What: /sys/kernel/slab/cache/object\_size

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The object\_size file is read-only and specifies the cache's

object size.

object\_size文件是只读的，并指定缓存的对象大小。

### objects

What: /sys/kernel/slab/cache/objects

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The objects file is read-only and displays how many objects are

active and from which nodes they are from.

objects文件是只读的，并显示有多少对象是active的，以及来自哪个节点。

### objects\_partial

What: /sys/kernel/slab/cache/objects\_partial

Date: April 2008

KernelVersion: 2.6.26

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The objects\_partial file is read-only and displays how many

objects are on partial slabs and from which nodes they are

from.

objects\_partial文件是只读的，并显示部分slabs上的对象数量以及来自哪些节点。

### objs\_per\_slab

What: /sys/kernel/slab/cache/objs\_per\_slab

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The file objs\_per\_slab is read-only and specifies how many

objects may be allocated from a single slab of the order

specified in /sys/kernel/slab/cache/order.

objs\_per\_slab文件是只读的，并指定可以从/sys/kernel/slab/cache/order中指定顺序的单个slab中分配多少个对象。

### order

What: /sys/kernel/slab/cache/order

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The order file specifies the page order at which new slabs are

allocated. It is writable and can be changed to increase the

number of objects per slab. If a slab cannot be allocated

because of fragmentation, SLUB will retry with the minimum order

possible depending on its characteristics.

When debug\_guardpage\_minorder=N (N > 0) parameter is specified

(see Documentation/admin-guide/kernel-parameters.rst), the minimum possible

order is used and this sysfs entry can not be used to change

the order at run time.

order文件指定分配新slab的page order。它是可写的，可以更改，以增加每个slab的对象数量。

如果由于碎片而无法分配slab，则SLUB将根据其特性以最小顺序重试。

当指定了debug\_guardpage\_minorder = N（N> 0）参数（请参阅Documentation / admin-guide / kernel-parameters.rst）时，

使用最小可能的order，并且此sysfs条目不能用于在运行时更改顺序。

### order\_fallback

What: /sys/kernel/slab/cache/order\_fallback

Date: April 2008

KernelVersion: 2.6.26

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The order\_fallback file shows how many times an allocation of a

new slab has not been possible at the cache's order and instead

fallen back to its minimum possible order. It can be written to

clear the current count.

Available when CONFIG\_SLUB\_STATS is enabled.

order\_fallback文件显示了在缓存的order上不可能分配新的slab的次数，而是降低到最小可能的order。

可以写入清除当前计数。启用CONFIG\_SLUB\_STATS时可用。

### partial

What: /sys/kernel/slab/cache/partial

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The partial file is read-only and displays how long many

partial slabs there are and how long each node's list is.

partial文件是只读的，显示多个部分slab的长度以及每个节点的list的长度。

### poison

What: /sys/kernel/slab/cache/poison

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The poison file specifies whether objects should be poisoned

when a new slab is allocated.

poison文件指定在分配新的slab时是否应该poison对象。

### reclaim\_account

What: /sys/kernel/slab/cache/reclaim\_account

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The reclaim\_account file specifies whether the cache's objects

are reclaimable (and grouped by their mobility).

reclaim\_account文件指定缓存的对象是否可回收（并通过其移动性进行分组）。

### red\_zone

What: /sys/kernel/slab/cache/red\_zone

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The red\_zone file specifies whether the cache's objects are red

zoned.

红色区域文件指定缓存对象是否为red\_zone。

### remote\_node\_defrag\_ratio

What: /sys/kernel/slab/cache/remote\_node\_defrag\_ratio

Date: January 2008

KernelVersion: 2.6.25

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The file remote\_node\_defrag\_ratio specifies the percentage of

times SLUB will attempt to refill the cpu slab with a partial

slab from a remote node as opposed to allocating a new slab on

the local node. This reduces the amount of wasted memory over

the entire system but can be expensive.

Available when CONFIG\_NUMA is enabled.

remote\_node\_defrag\_ratio文件指定SLUB将尝试从远程节点向部分slab重新填充cpu slab的次数所占的百分比，

而不是在本地节点上分配新的slab。这减少了整个系统内存浪费的量，但代价可能更昂贵。

启用CONFIG\_NUMA时可用。

### sanity\_checks

What: /sys/kernel/slab/cache/sanity\_checks

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The sanity\_checks file specifies whether expensive checks

should be performed on free and, at minimum, enables double free

checks. Caches that enable sanity\_checks cannot be merged with

caches that do not.

sanity\_checks文件指定是否应该免费执行昂贵的检查，并且至少允许双重检查。启用sanity\_checks的缓存不能与没有缓存的缓存合并。

### shrink

What: /sys/kernel/slab/cache/shrink

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The shrink file is written when memory should be reclaimed from

a cache. Empty partial slabs are freed and the partial list is

sorted so the slabs with the fewest available objects are used

first.

当内存应从缓存中回收时，shrink文件被写入。空部分slab被释放，partial list被排序，所以首先使用具有最少可用对象的slab。

### slab\_size

What: /sys/kernel/slab/cache/slab\_size

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The slab\_size file is read-only and specifies the object size

with metadata (debugging information and alignment) in bytes.

slab\_size文件是只读的，并以字节为单位指定具有元数据（调试信息和对齐方式）的对象大小。

### cache/slabs

What: /sys/kernel/slab/cache/slabs

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The slabs file is read-only and displays how long many slabs

there are (both cpu and partial) and from which nodes they are

from.

slabs文件是只读的，显示了许多slab（包括cpu和partial）以及它们来自哪个节点的时间。

### store\_user

What: /sys/kernel/slab/cache/store\_user

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The store\_user file specifies whether the location of

allocation or free should be tracked for a cache.

store\_user文件指定是否应为缓存跟踪分配位置或空闲位置。

### total\_objects

What: /sys/kernel/slab/cache/total\_objects

Date: April 2008

KernelVersion: 2.6.26

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The total\_objects file is read-only and displays how many total

objects a cache has and from which nodes they are from.

total\_objects文件是只读的，并显示高速缓存具有多少个对象以及从哪个节点。

### trace

What: /sys/kernel/slab/cache/trace

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

The trace file specifies whether object allocations and frees

should be traced.

trace文件指定是否跟踪对象分配和释放。

### validate

What: /sys/kernel/slab/cache/validate

Date: May 2007

KernelVersion: 2.6.22

Contact: Pekka Enberg <penberg@cs.helsinki.fi>,

Christoph Lameter <cl@linux-foundation.org>

Description:

Writing to the validate file causes SLUB to traverse all of its

cache's objects and check the validity of metadata.

写入validate文件会导致SLUB遍历其所有缓存的对象并检查元数据的有效性。