

sysfs-memory-page-offline..txt

What: /sys/devices/system/memory/soft_offline_page
Date: Sep 2009
KernelVersion: 2.6.33
Contact: andi@firstfloor.org
Description:

Soft-offline the memory page containing the physical address written into this file. Input is a hex number specifying the physical address of the page. The kernel will then attempt to soft-offline it, by moving the contents elsewhere or dropping it if possible. The kernel will then be placed on the bad page list and never be reused.

The offlining is done in kernel specific granularity. Normally it's the base page size of the kernel, but this might change.

The page must be still accessible, not poisoned. The kernel will never kill anything for this, but rather fail the offline. Return value is the size of the number, or a error when the offlining failed. Reading the file is not allowed.

What: /sys/devices/system/memory/hard_offline_page
Date: Sep 2009
KernelVersion: 2.6.33
Contact: andi@firstfloor.org
Description:

Hard-offline the memory page containing the physical address written into this file. Input is a hex number specifying the physical address of the page. The kernel will then attempt to hard-offline the page, by trying to drop the page or killing any owner or triggering IO errors if needed. Note this may kill any processes owning the page. The kernel will avoid to access this page assuming it's poisoned by the hardware.

The offlining is done in kernel specific granularity. Normally it's the base page size of the kernel, but this might change.

Return value is the size of the number, or a error when the offlining failed.
Reading the file is not allowed.