

RHEL5 Driver Update Program Add On drivers for SLC5

Goal

To rationalize additional kernel module management / building / deployment for Scientific Linux (CERN) 5.

Idea

- Red Hat Driver Update Program [↗](#)
- kerneldrivers.org [↗](#)

Benefits

T.B.D.

Implementation

Testing compatibility

In order to use weak-modules mechanism, given module must use only functions exported by kernel on a 'whitelist' (RH provides a tool - [abi_check](#) [↗](#) doing such check) Here are results of compatibility verification of modules we currently ship on SLC5:

- kernel-module-madwifi: OK
- kernel-module-ipw3945: OK
- kernel-module-ati-fglrx_8288: **do_mm_track_pte,mtrr_del,mm_tracking_struct,mtrr_add**
- kernel-module-nvidia_96xx: **mtrr_add,mtrr_del,agp_bridges**
- kernel-module-nvidia:
mtrr_del,agp_bridges,acpi_get_handle,acpi_os_wait_events_complete,acpi_bus_unregister_driver,acpi
- kernel-module-fuse: OK
- kernel-module-ndiswrapper: **add_taint**
- kernel-module-netlog2:
cpufreq_get,relay_open,_read_trylock,relay_buf_full,unregister_kretprobe,relay_close,cpufreq_unregis
- kernel-module-xfs: **sync_page_range**
- kernel-module-sstat: **register_jprobe,jprobe_return**
- kernel-module-st: OK
- kernel-module-openafs:
sys_close,key_alloc,unregister_key_type,key_instantiate_and_link,register_key_type,sys_open,key_put,s
- aacraid: OK
- e1000: OK
- e1000e: OK
- 3w-9xxx: OK
- ioatdma/dca: OK
- ixgbe: OK

(Re)packaging

In first step we (re)package all drivers listed as 'OK' in the above list into new kmod format: to allow smooth transition from previous kernel-module packages a small modification is necessary to the default kmodtool script: We need to make sure that freshly provided kmod-XXX package upgrades kernel-module-XXX one. (still a manual action may be required ...) T.B.D.

-- JaroslavPolok - 05 Nov 2008

This topic: LinuxSupport > DUPAddOns

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