
Subject: [PATCH 32/59] sysctl: C99 convert arch/mips/lasat/sysctl.c and remove ABI breakage.

Posted by [ebiederm](#) on Tue, 16 Jan 2007 16:39:37 GMT

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From: Eric W. Biederman <ebiederm@xmission.com> - unquoted

While C99 converting the ctl_table initializers I realized that the binary sysctl numbers were in conflict with the binary values under CTL_KERN. Including CTL_KERN KERN_VERSION as used by glibc. So I just removed the sysctl binary interface for these values, as it was unsupportable.

Luckily these sysctl were inserted at the end of the sysctl list so this bug was not visible to userspace.

Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>

arch/mips/lasat/sysctl.c | 145 ++++++-----
1 files changed, 116 insertions(+), 29 deletions(-)

diff --git a/arch/mips/lasat/sysctl.c b/arch/mips/lasat/sysctl.c

index 1287835..c04e82f 100644

--- a/arch/mips/lasat/sysctl.c

+++ b/arch/mips/lasat/sysctl.c

@@ -302,42 +302,129 @@ extern int lasat_boot_to_service;

#ifdef CONFIG_SYSCTL

```
static ctl_table lasat_table[] = {  
- {LASAT_CPU_HZ, "cpu-hz", &lasat_board_info.li_cpu_hz, sizeof(int),  
- 0444, NULL, &proc_dointvec, &sysctl_intvec},  
- {LASAT_BUS_HZ, "bus-hz", &lasat_board_info.li_bus_hz, sizeof(int),  
- 0444, NULL, &proc_dointvec, &sysctl_intvec},  
- {LASAT_MODEL, "bmid", &lasat_board_info.li_bmid, sizeof(int),  
- 0444, NULL, &proc_dointvec, &sysctl_intvec},  
- {LASAT_PRID, "prid", &lasat_board_info.li_prid, sizeof(int),  
- 0644, NULL, &proc_lasat_eeprom_value, &sysctl_lasat_eeprom_value},  
+ {  
+ .ctl_name = CTL_UNNUMBERED,  
+ .procname = "cpu-hz",  
+ .data = &lasat_board_info.li_cpu_hz,  
+ .maxlen = sizeof(int),  
+ .mode = 0444,  
+ .proc_handler = &proc_dointvec,  
+ .strategy = &sysctl_intvec  
+ },  
+ {  
+ .ctl_name = CTL_UNNUMBERED,
```

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+ .procname = "bus-hz",
+ .data = &lasat_board_info.li_bus_hz,
+ .maxlen = sizeof(int),
+ .mode = 0444,
+ .proc_handler = &proc_dointvec,
+ .strategy = &sysctl_intvec
+ },
+ {
+ .ctl_name = CTL_UNNUMBERED,
+ .procname = "bmid",
+ .data = &lasat_board_info.li_bmid,
+ .maxlen = sizeof(int),
+ .mode = 0444,
+ .proc_handler = &proc_dointvec,
+ .strategy = &sysctl_intvec
+ },
+ {
+ .ctl_name = CTL_UNNUMBERED,
+ .procname = "prid",
+ .data = &lasat_board_info.li_prid,
+ .maxlen = sizeof(int),
+ .mode = 0644,
+ .proc_handler = &proc_lasat_eeprom_value,
+ .strategy = &sysctl_lasat_eeprom_value
+ },
#ifdef CONFIG_INET
- {LASAT_IPADDR, "ipaddr", &lasat_board_info.li_eeprom_info.ipaddr, sizeof(int),
- 0644, NULL, &proc_lasat_ip, &sysctl_lasat_intvec},
- {LASAT_NETMASK, "netmask", &lasat_board_info.li_eeprom_info.netmask, sizeof(int),
- 0644, NULL, &proc_lasat_ip, &sysctl_lasat_intvec},
- {LASAT_BCAST, "bcastaddr", &lasat_bcastaddr,
- sizeof(lasat_bcastaddr), 0600, NULL,
- &proc_dostring, &sysctl_string},
+ {
+ .ctl_name = CTL_UNNUMBERED,
+ .procname = "ipaddr",
+ .data = &lasat_board_info.li_eeprom_info.ipaddr,
+ .maxlen = sizeof(int),
+ .mode = 0644,
+ .proc_handler = &proc_lasat_ip,
+ .strategy = &sysctl_lasat_intvec
+ },
+ {
+ .ctl_name = LASAT_NETMASK,
+ .procname = "netmask",
+ .data = &lasat_board_info.li_eeprom_info.netmask,
+ .maxlen = sizeof(int),
+ .mode = 0644,

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+ .proc_handler = &proc_lasat_ip,
+ .strategy = &sysctl_lasat_intvec
+ },
+ {
+ .ctl_name = CTL_UNNUMBERED,
+ .procname = "bcastaddr",
+ .data = &lasat_bcastaddr,
+ .maxlen = sizeof(lasat_bcastaddr),
+ .mode = 0600,
+ .proc_handler = &proc_dostring,
+ .strategy = &sysctl_string
+ },
#endif
- {LASAT_PASSWORD, "passwd_hash", &lasat_board_info.li_eeprom_info.passwd_hash,
sizeof(lasat_board_info.li_eeprom_info.passwd_hash),
- 0600, NULL, &proc_dolasatstring, &sysctl_lasatstring},
- {LASAT_SBOOT, "boot-service", &lasat_boot_to_service, sizeof(int),
- 0644, NULL, &proc_dointvec, &sysctl_intvec},
+ {
+ .ctl_name = CTL_UNNUMBERED,
+ .procname = "passwd_hash",
+ .data = &lasat_board_info.li_eeprom_info.passwd_hash,
+ .maxlen = sizeof(lasat_board_info.li_eeprom_info.passwd_hash),
+ .mode = 0600,
+ .proc_handler = &proc_dolasatstring,
+ .strategy = &sysctl_lasatstring
+ },
+ {
+ .ctl_name = CTL_UNNUMBERED,
+ .procname = "boot-service",
+ .data = &lasat_boot_to_service,
+ .maxlen = sizeof(int),
+ .mode = 0644,
+ .proc_handler = &proc_dointvec,
+ .strategy = &sysctl_intvec
+ },
#ifdef CONFIG_DS1603
- {LASAT_RTC, "rtc", &rtctmp, sizeof(int),
- 0644, NULL, &proc_dolasatrtc, &sysctl_lasat_rtc},
+ {
+ .ctl_name = CTL_UNNUMBERED,
+ .procname = "rtc",
+ .data = &rtctmp,
+ .maxlen = sizeof(int),
+ .mode = 0644,
+ .proc_handler = &proc_dolasatrtc,
+ .strategy = &sysctl_lasat_rtc
+ },

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#endif
- {LASAT_NAMESTR, "namestr", &lasat_board_info.li_namestr,
sizeof(lasat_board_info.li_namestr),
- 0444, NULL, &proc_dostring, &sysctl_string},
- {LASAT_TYPESTR, "typestr", &lasat_board_info.li_typestr, sizeof(lasat_board_info.li_typestr),
- 0444, NULL, &proc_dostring, &sysctl_string},
- {0}
+ {
+ .ctl_name = CTL_UNNUMBERED,
+ .procname = "namestr",
+ .data = &lasat_board_info.li_namestr,
+ .maxlen = sizeof(lasat_board_info.li_namestr),
+ .mode = 0444,
+ .proc_handler = &proc_dostring,
+ .strategy = &sysctl_string
+ },
+ {
+ .ctl_name = CTL_UNNUMBERED,
+ .procname = "typestr",
+ .data = &lasat_board_info.li_typestr,
+ .maxlen = sizeof(lasat_board_info.li_typestr),
+ .mode = 0444,
+ .proc_handler = &proc_dostring,
+ .strategy = &sysctl_string
+ },
+ {}
};

#define CTL_LASAT 1 // CTL_ANY ???
static ctl_table lasat_root_table[] = {
- { CTL_LASAT, "lasat", NULL, 0, 0555, lasat_table },
- { 0 }
+ {
+ .ctl_name = CTL_UNNUMBERED,
+ .procname = "lasat",
+ .mode = 0555,
+ .child = lasat_table
+ },
+ {}
};

static int __init lasat_register_sysctl(void)
--
1.4.4.1.g278f

```

Containers mailing list
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