PSS-updates..txt

This file contains notes for users of PSS sound cards who wish to use the
newly added features of the newest version of this driver.

The major enhancements present in this new revision of this driver is the
addition of two new module parameters that allow you to take full advantage of
all the features present on your PSS sound card. These features include the
ability to enable both the builtin CDROM and joystick ports.

pss_enable_joystick

This parameter is basically a flag. A 0 will leave the joystick port
disabled, while a non-zero value would enable the joystick port. The default
setting is pss_enable_joystick=0 as this keeps this driver fully compatible
with systems that were using previous versions of this driver. If you wish to
enable the joystick port you will have to add pss_enable_joystick=1 as an
argument to the driver. To actually use the joystick port you will then have
to load the joystick driver itself. Just remember to load the joystick driver
AFTER the pss sound driver.

pss_cdrom_port

This parameter takes a port address as its parameter. Any available port
address can be specified to enable the CDROM port, except for 0x0 and -1 as
these values would leave the port disabled. Like the joystick port, the cdrom
port will require that an appropriate CDROM driver be loaded before you can make

use of the newly enabled CDROM port. Like the joystick port option above,
remember to load the CDROM driver AFTER the pss sound driver. While it may
differ on some PSS sound cards, all the PSS sound cards that I have seen have a
builtin Wearnes CDROM port. If this is the case with your PSS sound card you
should load aztcd with the appropriate port option that matches the port you
assigned to the CDROM port when you loaded your pss sound driver. (ex.
modprobe pss pss_cdrom_port=0x340 && modprobe aztcd aztcd=0x340) The default
setting of this parameter leaves the CDROM port disabled to maintain full
compatibility with systems using previous versions of this driver.

Other options have also been added for the added convenience and utility

of the user. These options are only available if this driver is loaded as a
module.

pss_no_sound

This module parameter is a flag that can be used to tell the driver to
just configure non-sound components. 0 configures all components, a non-0
value will only attept to configure the CDROM and joystick ports. This
parameter can be used by a user who only wished to use the builtin joystick
and/or CDROM port(s) of his PSS sound card. If this driver is loaded with this
parameter and with the parameter below set to true then a user can safely unload

this driver with the following command "rmmod pss && rmmod ad1848 && rmmod
mpu401 && rmmod sound && rmmod soundcore" and retain the full functionality of
his CDROM and/or joystick port(s) while gaining back the memory previously used

by the sound drivers. This default setting of this parameter is 0 to retain
full behavioral compatibility with previous versions of this driver.

pss_keep_settings

        This parameter can be used to specify whether you want the driver to
reset
all emulations whenever its unloaded. This can be useful for those who are
sharing resources (io ports, IRQ's, DMA's) between different ISA cards. This
flag can also be useful in that future versions of this driver may reset all
emulations by default on the driver's unloading (as it probably should), so
specifying it now will ensure that all future versions of this driver will
continue to work as expected. The default value of this parameter is 1 to
retain full behavioral compatibility with previous versions of this driver.

pss_firmware

        This parameter can be used to specify the file containing the firmware
code so that a user could tell the driver where that file is located instead
of having to put it in a predefined location with a predefined name. The
default setting of this parameter is "/etc/sound/pss_synth" as this was the
path and filename the hardcoded value in the previous versions of this driver.

Examples:

Normal PSS sound card system, loading of drivers.
Should be specified in an rc file (ex. Slackware uses /etc/rc.d/rc.modules).

/sbin/modprobe pss pss_io=0x220 mpu_io=0x338 mpu_irq=9 mss_io=0x530 mss_irq=10
mss_dma=1 pss_cdrom_port=0x340 pss_enable_joystick=1
/sbin/modprobe aztcd aztcd=0x340
/sbin/modprobe joystick

System using the PSS sound card just for its CDROM and joystick ports.
Should be specified in an rc file (ex. Slackware uses /etc/rc.d/rc.modules).

/sbin/modprobe pss pss_io=0x220 pss_cdrom_port=0x340 pss_enable_joystick=1
pss_no_sound=1
/sbin/rmmod pss && /sbin/rmmod ad1848 && /sbin/rmmod mpu401 && /sbin/rmmod sound
&& /sbin/rmmod soundcore # This line not needed, but saves memory.
/sbin/modprobe aztcd aztcd=0x340
/sbin/modprobe joystick