The PSS cards and other ECHO based cards provide an onboard DSP with downloadable programs and also has an AD1848 "Microsoft Sound System" device. The PSS driver enables MSS and MPU401 modes of the card. SB is not enabled since it doesn't work concurrently with MSS.

If you build this driver as a module then the driver takes the following parameters

| | |
|---|---|
| pss_io. | The I/O base the PSS card is configured at (normally 0x220 or 0x240) |
| mss_io | The base address of the Microsoft Sound System interface. This is normally 0x530, but may be 0x604 or other addresses. |
| mss_irq | The interrupt assigned to the Microsoft Sound System emulation. IRQ's 3,5,7,9,10,11 and 12 are available. If you get IRQ errors be sure to check the interrupt is set to "ISA/Legacy" in the BIOS on modern machines. |
| mss_dma | The DMA channel used by the Microsoft Sound System. This can be 0, 1, or 3. DMA 0 is not available on older machines and will cause a crash on them. |
| mpu_io | The MPU emulation base address. This sets the base of the synthesizer. It is typically 0x330 but can be altered. |
| mpu_irq | The interrupt to use for the synthesizer. It must differ from the IRQ used by the Microsoft Sound System port. |

The mpu_io/mpu_irq fields are optional. If they are not specified the synthesizer parts are not configured.

When the module is loaded it looks for a file called /etc/sound/pss_synth. This is the firmware file from the DOS install disks. This fil holds a general MIDI emulation. The file expected is called genmidi.ld on newer DOS driver install disks and synth.ld on older ones.

You can also load alternative DSP algorithms into the card if you wish. One alternative driver can be found at http://www.mpg123.de/