PC MultiMedia Kit: Manual Install of Sound Card SW (11/94)

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TOPIC ---

The following are the instructions for installing the Sound Card software for
the PC MultiMedia Kit.

DISCUSSION --

Here are the steps for a manual install:

1) Make sure you are at the c:\ prompt, insert Spectrum disk into the drive
2) Type in "xcopy x: c:\spectrum<cr>" where "x" is the drive the Spectrum
   floppy is in.
3) If the c:\spectrum directory does not exist, the system will ask you if
   c:\spectrum is supposed to be a file or a directory. Hit "d" for
   directory, and the files from the Spectrum disk will be copied to the
   newly created Spectrum directory on the c: drive.
4) After the copy is completed, type "cd c:\spectrum<cr>". You are now in
   the Spectrum directory.
5) Type "lharc e programs.lzh<cr>". If it asks you if you want to
   overwrite any files, answer yes.
6) Edit the config.sys file by typing in "edit c:\config.sys<cr>". Add the
   following two lines:
        device=c:\spectrum\mvsound.sys d:x q:y s:1,220,1,5 M:0 J:0
        device=c:\spectrum\tslcdr.sys d:/mvcd001
   (where "x" = the DMA channel desired and "y" = the IRQ desired)
   hit <alt>F, then "x", then hit <cr>. Alt-F pulls down the "file" menu,
   "x" is for ext, and <cr> answers yes to save the file.
7) MAKE SURE YOU BACK UP THE SYSTEM.INI FILE BEFORE DOING THIS!
   Type "edit c:\windows\system.ini<cr>" to add the proper lines to the
   system.ini file if also installing the software for Windows.
8) Add the following to the system.ini file:
     Under the [386Enh] section:
     device=vpasd.386
     dmabuffersize=64

     Under the [mci] section
     mixer=mcimixer.drv

     Under the [drivers] section
     Wave=mvproaud.drv

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     MIDI1=mvproaud.drv
     Aux=mvproaud.drv
     MIDI2=opl3.drv
     Mixer=mvmixer.drv
     midi=opl3.drv
```

   Add the following sections at the end of the system.ini file, include the
   lines listed under the section headings:

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   [mvproaud.drv]
   dma=x            (where "x" = the DMA channels set in the config.sys file)
   irq=y            (where "y" = the IRQ set in the config.sys file)

   [opl3.drv]
   drumchannel=10
   patchfile=(none)

   [Multimedia.Setup]
   audio=mvproaud.drv,0,0,0
```

9) Reboot the machine. If it hangs, then boot to floppy and change the
   values for "d" and/or "q" in the "mvsound.sys" line. The best thing to
   do again is to get a diagnostic program to tell you which DMA/IRQ
   channels are available, so you don't have to keep trying different
   combinations. The install program is NOT reliable enough to determine
   free DMA/IRQ channels 100% of the time. Manually loading the software
   as described above will work almost all of the time.
10) After a successful boot, type "cd c:\spectrum<cr>" then type "playfile
   testdma.wav<cr>". This will test the sound card. If you hear sound
   (assuming the speakers are connected correctly), then everything is set
   up correctly and working properly. If you don't hear sound, check for
   possible DMA and/or IRQ conflict.

If you have tried a DMA/IRQ combination that you know is free and the machine
still hangs, its possible you have either a corrupted driver or an old driver.

The "mvsound.sys" line is the sound card device driver.
The "tslcdr.sys" line is the cdrom device driver. Notice that you MUST add
"mscdex.exe" to the autoexec.bat file to be able to access the CD-ROM drive. See
the DOS documentation for information on mscdex.exe

Some things to watch out for:
1. Incompatible device drivers or tsrs. If the sound card device driver
   hangs the machine and you know it's set to a valid DMA/IRQ combination
   AND you know the driver to be good, eliminate other driver/tsr conflicts
   by loading the spectrum device driver by itself.
2. Board conflicts: If the machine is loaded with expansion boards (modem,
   network card, SCSI card, etc...) it could be that you DON'T have any DMA
   or IRQs left! Be sure you KNOW what all boards in the system are set to,
   so you can avoid conflicts.
3. Corrupted drivers.

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