



Application Note: Multiple boards under NT

DATE: October 23, 1997
TO: All Win NT Users
FROM: Technical Staff
RE: Installing multiple ISA boards under Windows NT.
CC:

Problem

The default installation for Windows NT is for a single board. For PCI boards this installation also handles the multiple board case. However, to install multiple ISA boards it is necessary to either hack the registry or use REGINI.EXE to make the necessary changes to the registry. Note: if more than one ISA board is installed, its resources are NOT reported in NT Troubleshooter.

Solution

This demonstrates how to use REGINI.EXE along with an INI file to add additional boards.

- 1) Using NT Diagnostics find unused I/O, memory and IRQ for the board to be installed. Note: for ISA boards, current NT drivers require an IRQ
- 2) Inside the INI file: edit DeviceCount to reflect the total number of boards that will be in your system. Also under DeviceCount heading is a block starting with a "0". Copy this block for each board that need to install and label them in increasing order (1, 2, 3, etc.) See Listing 1 for example INI file.
- 3) At command prompt type in "regini blah.ini", which will take INI file settings and jam them into the registry.
- 4) Configure ISA boards for addresses determined above and verify installation by running terminal for both boards. Use "terminal.exe -t 1" to start terminal for target 1.

```
\Registry\Machine\System\CurrentControlSet\Services\PC32
Type = REG_DWORD 0x00000001
Start = REG_DWORD 0x00000003
Group = Extended base
ErrorControl = REG_DWORD 0x00000001
Parameters
  DeviceCount = REG_DWORD 0x00000002
  0
    IoPortAddress = REG_DWORD 0x00000110
    DualPortAddress = REG_DWORD 0x000C8000
    IRQ = REG_DWORD 0x00000005
  1
    IoPortAddress = REG_DWORD 0x00000120
    DualPortAddress = REG_DWORD 0x000CC000
    IRQ = REG_DWORD 0x00000011
```

Listing 1: Example INI file