NOVELL TECHNICAL BULLETIN

        TITLE: Novell NetWare v2.2 and the IBM PS/2 Enhanced 80386
Memory Expansion option 2MB and 4 MB kit
    DOCUMENT ID#:   TB.P.289
         DATE: 05/09/91
      PRODUCT: NetWare 286
 PRODUCT VERSION: 2.2
     SUPERSEDES: NA

    SYMPTOM: NA

    ISSUE/PROBLEM

    When using the IBM PS/2 Enhanced 80386 Memory Expansion Option
    in conjunction with Netware v2.2, two issues may arise:

    1.   The file server will be unable to boot from the hard drive if
    NetWare v2.2 is installed before the IBM Memory Expansion Option is
    installed in the system. The IBM Memory Expansion Option software
    will overwrite the NetWare cold boot loader stored at track 0 on a file
    server. This issue also occurred in v2.15c and was resolved by using
    IBMMEM.ZIP patch on NetWire(NOVA LIB 8).

    2.   The file server will not recognize the IBM Expansion Option if the
    IBM Memory Expansion Option is installed before NetWare v2.2 is
    installed in the system. Netware v2.2 will write over the IBM Memory
    Expansion Option software necessary to recognize the adapter. You
    may receive "Error Loading User Device" then boot to BASIC.

    Products Affected:

    Novell NetWare 286 v2.2
    IBM PS/2 Enhanced 80386 Memory Expansion option 2MB and 4 MB kit

    o   2 MB Kit - IBM p/n 34F3077   feature code 3077

    o   4 MB Kit - IBM p/n 34F3011   feature code 3011

    o   NOTE Both the 2 and 4 Megabyte versions of the memory card
    can also be identified by the same card sub assembly part
    number(located on the back of the card near the metal bracket). This
    IBM card sub assembly part number is as follows:

    p/n 49F5507 -- on adapters manufactured before July 1, 1990 p/n

87F9819 -- on adapters manufactured on or after July 1, 1990

SOLUTION: NA

It is necessary to boot NetWare from diskette when using the IBM Memory Expansion Option on a file server. This will solve either potential issue. To use the full functionality of the memory adapter, you must complete the following procedures:

1)   Install the IBM Memory Expansion Option again. Please refer to the installation instructions provided with the adapter.

2)   Copy the memory adapter's board driver, DOSMEMDD.SYS, from your Option diskette to a DOS bootable floppy diskette. Copy or create a CONFIG.SYS file on this DOS bootable diskette and include on line 1 the statement "DEVICE = DOSMEMDD.SYS". Please refer to the installation instructions provided with the adapter.

3)   If you are using the Enhanced 80386 Memory as DOS 4.0 expanded memory, please refer to section 2 of your installation instructions provided with your adapter.

4)   Place the file server's operating system on the same diskette. Please refer to "Using the Network" (Novell NetWare) manual pages 6 and 7 for full instructions on booting the file server from floppy diskette.

Novell is currently working on a patch to enable the cold boot loader information on track 0 to work with the IBM Memory Expansion Option in NetWare v2.2. This patch should be available by June 30 1991 on NetWire NOVA LIB 16 or 8 named IBM22M.ZIP.