

Instructions to build and install IMB Driver

Following build components must be installed in the system to build the imbdrv.sys. It is recommended that the build tools be installed in the sequence mentioned below.

1. Microsoft Visual C++ Studio version 6.0 upgraded to Service pack 3.
2. Microsoft platform SDK (latest MSDN version: January 2000 version or higher)
3. Windows driver development Kit. (.NET, XP, 2000, NT)

Build Instructions for the driver on Windows.NET and Windows XP:

1. Use WinZip or similar tool to unzip the file ipmidrv*.zip. This name of the zip file might contain some version and platform details like x86, 64 etc. Following subdirectories will be created under the directory created by the user.

. \ (networkpath) \ imbdrv \

2. Installing the windows DDK (.NET or XP) creates the entries “free build environment” and “checked build environment “ for both 32 and 64 bit in the programs menu under Development Kits \ Windows * DDK
3. Based on the specific requirement, click on either the “checked” build or the “free” build option to invoke the build environment specific DOS box.
4. Change the present working directory path to one which contains the file by name “sources” under the IPMI driver source code which in this example case is \ (networkpath) \ Imbdrv \ which resides under the folder to which the Driver source code zip file was unzipped.
5. To build the IMB Driver, type the following command, **build -cZ**
6. build -? will give the other options possible to use with the build command. To build the IPMI driver source -cZ option is sufficient.
7. The IPMI driver specific binary file imbdrv.sys will be created in the sub directory \ (networkpath) \ Drivers \ lib \ (chk | fre) \ (i386 | ia64) \

i386 – 32 bit driver build

ia64 – 64 bit driver build

8. Copy the imbdrv.sys, win2kinstall.exe, win2kuninstall.exe and imbdrv.inf to a diskette.

Install Instructions:

Insert the diskette with the previously built files in the diskette drive on the system where the IpmiDriver needs to be installed.

To install the IPMI driver create a temporary folder on the system drive. Assuming the temporary directory to be D:\Temp, use the following steps to install the driver.

1. cd D:\Temp

2. `copy a:*.*`
3. `win2kinstall d:\temp\imbdrv.inf *IMBDRV`
4. Reboot the system

To make sure the driver is installed properly, go to My Computer and right click. Click on Manage.. Now, click on device manager to see a list of devices on the System. Click on the system devices, which shows a list of devices. Double click on the Intel Intelligent Management Bus Driver to see the properties. The properties show if the drives has been installed and working properly or not.

Build Instructions for the Driver on Windows 2000 and Windows NT:

1. Use 'Winzip' or a similar tool to unzip the file 'imb.zip'. Following sub-directories will be created under the directory selected by the user:

```
. \network\src\imb
. \network\src\imbapi
. \network\src\drivers\lib\i386
```

2. To build 'imbapi.dll', invoke the Visual C++ IDE environment.

From the 'File' menu, click on the 'Open Workspace' option. Open the workspace file 'imbapi.mak' from the sub-directory 'network\src\imbapi' which was created under the directory where the file 'imb.zip' was unzipped.

To build the release version of the 'imapi.dll', click on 'Set Active Configuration' option from the 'Build' menu and choose the option 'imbapi - Win32 Release'.

The release version of 'imbapi.dll' will be built in the sub-directory
`. \network\src\imbapi\release.`

Copy 'imbapi.dll' to a diskette.

3. Installing the Windows 2000 DDK creates the entries 'free build environment' and 'checked build environment' in the folder 'Development Kits\Windows 2000 DDK'. Based on the specific requirement, click on either the 'checked' (debug) or the 'free' option to invoke the build environment specific DOS box. Change the current directory to the sub directory 'network\src\imbdrv' which resides under the directory where 'imb.zip' file was unzipped. To build the IMB driver for Windows 2000 operating system, type the following commands:

```
copy srcimb2k sources
build -c
```

To build the IMB driver for Windows NT 4.0 operating system, type the following commands:

```
copy srcnt sources
```

build -c

The IMB driver specific binary file 'imbdrv.sys' will be created in the sub-directory 'network\src\drivers\lib\i386'. Copy 'imbdrv.sys' file to a diskette. If the driver was built for Windows 2000 operating system then from the sub-directory 'network\src\imb', copy the files 'win2kinstall.exe' and 'imbdrv.inf' to the same diskette .

(**Note:** Separate install diskettes should be used for Windows NT 4.0 and Windows 2000 based IMB driver.)

Install instructions for Windows 2000:

Insert the diskette with the previously built files in the diskette drive (assumed to be A: here) on the system where the IMB driver and imbapi.dll need to be installed. Type the following command:

```
copy a:\imbapi.dll %systemroot%\system32
```

To install the IMB driver in Windows 2000 environment, create a temporary directory on a system drive. Assuming the temporary directory to be 'd:\temp' type the following commands:

```
cd d:\temp
copy a:\*.*
Win2kinstall d:\temp\imbdrv.inf *IMBDRV
```

Reboot the system.

Install instructions for Windows NT:

Copy a:\imbdrv.sys %systemroot%\system32\drivers.

Using the registry editor (regedt32.exe), create a registry key 'imbdrv' in the registry path :

"\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services".

To the 'imbdrv' key, add a value "Start" as REG_DWORD with the contents set to 2.

To the 'imbdrv' key, add a value "Type" as REG_DWORD with the contents set to 1.

To the 'imbdrv' key, add a value "ErrorControl" as REG_DWORD with the contents set to 1.

Reboot the system.