驱动 INF 阅读术

之前的文章中已经介绍了，驱动INF规定着驱动适合哪些硬件、安装驱动时复制哪些文件、注册表添加哪些键值、增加哪些服务等等，本文将以INTEL ICH7~ICH10 AHC INF为例向大家介绍如何读驱动INF。

INTEL ICH7~ICH10 AHCI磁盘控制器驱动INF如下：

```
[version]
CatalogFile=iaAHCI.cat
Signature="$WINDOWS NT$"
Class=hdc
ClassGuid={4D36E96A-E325-11CE-BFC1-08002BE10318}
Provider=%INTEL%
DriverVer=07/20/2008,8.5.0.1032
[DestinationDirs]
DefaultDestDir = 12 ; DIRID_DRIVERS
CopyFullPort = 12;

[CopyFullPort]
iaStor.sys

[SourceDisksNames]
1 = %DiskName%,,,

[SourceDisksFiles]
iaStor.sys= 1

[ControlFlags]
ExcludeFromSelect=*

[Manufacturer]
%INTEL%=INTEL_HDC,ntamd64

[INTEL_HDC]
%PCI\VEN_8086&DEV_2681&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_2681&CC_0106
%PCI\VEN_8086&DEV_27C1&CC_0106.DeviceDesc% = iaStor_Inst,PCI\VEN_8086&DEV_27C1&CC_0106
%PCI\VEN_8086&DEV_27C5&CC_0106.DeviceDesc% = iaStor_mobl_Inst,PCI\VEN_8086&DEV_27C5&CC_0106
%PCI\VEN_8086&DEV_2821&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_2821&CC_0106
%PCI\VEN_8086&DEV_2829&CC_0106.DeviceDesc% = iaStor_mobl_Inst, PCI\VEN_8086&DEV_2829&CC_0106
%PCI\VEN_8086&DEV_2922&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_2922&CC_0106
%PCI\VEN_8086&DEV_2929&CC_0106.DeviceDesc% = iaStor_mobl_Inst, PCI\VEN_8086&DEV_2929&CC_0106
%PCI\VEN_8086&DEV_3A02&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_3A02&CC_0106
%PCI\VEN_8086&DEV_3A22&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_3A22&CC_0106

[INTEL_HDC.ntamd64]
%PCI\VEN_8086&DEV_2681&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_2681&CC_0106
%PCI\VEN_8086&DEV_27C1&CC_0106.DeviceDesc% = iaStor_Inst,PCI\VEN_8086&DEV_27C1&CC_0106
%PCI\VEN_8086&DEV_27C5&CC_0106.DeviceDesc% = iaStor_mobl_Inst,PCI\VEN_8086&DEV_27C5&CC_0106
%PCI\VEN_8086&DEV_2821&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_2821&CC_0106
%PCI\VEN_8086&DEV_2829&CC_0106.DeviceDesc% = iaStor_mobl_Inst, PCI\VEN_8086&DEV_2829&CC_0106
%PCI\VEN_8086&DEV_2922&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_2922&CC_0106
%PCI\VEN_8086&DEV_2929&CC_0106.DeviceDesc% = iaStor_mobl_Inst, PCI\VEN_8086&DEV_2929&CC_0106
%PCI\VEN_8086&DEV_3A02&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_3A02&CC_0106
%PCI\VEN_8086&DEV_3A22&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_3A22&CC_0106

[iaStor_Inst]
AddReg = iaStor_Temp_parameters_AddReg
CopyFiles=CopyFullPort
FeatureScore=0x80

[iaStor_Inst.HW]
AddReg = iaStorSecurity.AddReg

[iaStor_mobl_Inst]
AddReg = iaStor_Temp_parameters_AddReg
CopyFiles=CopyFullPort
FeatureScore=0x80
```

```
[iaStor_mobl_Inst.HW]
AddReg = iaStorSecurity.AddReg

[iaStorSecurity.AddReg]
HKR,,Security,,"D:P(A;;FA;;;SY)(A;;FA;;;BA)(A;;FRFW;;;BU)"

[iaStor_Temp_parameters_AddReg]

[iaStor_Inst.Services]
AddService = iaStor, %SPSVCINST_ASSOCSERVICE%, iaStor_Service_Inst, iaStor_EventLog_Inst

[iaStor_mobl_Inst.Services]
AddService = iaStor, %SPSVCINST_ASSOCSERVICE%, iaStor_mobl_Service_Inst, iaStor_EventLog_Inst

[iaStor_Service_Inst]
DisplayName    = %*PNP0600.DeviceDesc%
ServiceType    = %SERVICE_KERNEL_DRIVER%
StartType      = %SERVICE_BOOT_START%
ErrorControl   = %SERVICE_ERROR_NORMAL%
ServiceBinary  = %12%\iaStor.sys
LoadOrderGroup = SCSI Miniport
AddReg         = iaStor_parameters_AddReg

[iaStor_mobl_Service_Inst]
DisplayName    = %*PNP0600.DeviceDesc%
ServiceType    = %SERVICE_KERNEL_DRIVER%
StartType      = %SERVICE_BOOT_START%
ErrorControl   = %SERVICE_ERROR_NORMAL%
ServiceBinary  = %12%\iaStor.sys
LoadOrderGroup = SCSI Miniport
AddReg         = iaStor_mobl_parameters_AddReg

[iaStor_parameters_AddReg]
HKR,,Tag,%REG_DWORD%,25
HKR,Parameters,queuePriorityEnable,%REG_DWORD%,0
HKR,Parameters,BusType,0x00010001,0x0000003
HKR,Parameters\Port0,%AN%,0x00010001,0
HKR,Parameters\Port0,%LPM%,0x00010001,0
HKR,Parameters\Port0,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port0,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port0,%GTF%,0x00010001,0
HKR,Parameters\Port0,%DIPM%,0x00010001,0
HKR,Parameters\Port1,%AN%,0x00010001,0
HKR,Parameters\Port1,%LPM%,0x00010001,0
HKR,Parameters\Port1,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port1,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port1,%GTF%,0x00010001,0
HKR,Parameters\Port1,%DIPM%,0x00010001,0
HKR,Parameters\Port2,%AN%,0x00010001,0
HKR,Parameters\Port2,%LPM%,0x00010001,0
HKR,Parameters\Port2,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port2,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port2,%GTF%,0x00010001,0
HKR,Parameters\Port2,%DIPM%,0x00010001,0
HKR,Parameters\Port3,%AN%,0x00010001,0
HKR,Parameters\Port3,%LPM%,0x00010001,0
HKR,Parameters\Port3,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port3,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port3,%GTF%,0x00010001,0
HKR,Parameters\Port3,%DIPM%,0x00010001,0
HKR,Parameters\Port4,%AN%,0x00010001,0
HKR,Parameters\Port4,%LPM%,0x00010001,0
HKR,Parameters\Port4,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port4,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port4,%GTF%,0x00010001,0
HKR,Parameters\Port4,%DIPM%,0x00010001,0
HKR,Parameters\Port5,%AN%,0x00010001,0
HKR,Parameters\Port5,%LPM%,0x00010001,0
HKR,Parameters\Port5,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port5,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port5,%GTF%,0x00010001,0
HKR,Parameters\Port5,%DIPM%,0x00010001,0
```

HKR,Parameters\Port5,%DIPM%,0x00010001,0

[iaStor_mobl_parameters_AddReg]
HKR,,Tag,%REG_DWORD%,25
HKR,Parameters,queuePriorityEnable,%REG_DWORD%,0
HKR,Parameters,BusType,0x00010001,0x0000003
HKR,Parameters\Port0,%AN%,0x00010001,0
HKR,Parameters\Port0,%LPM%,0x00010001,1
HKR,Parameters\Port0,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port0,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port0,%GTF%,0x00010001,1
HKR,Parameters\Port0,%DIPM%,0x00010001,1
HKR,Parameters\Port1,%AN%,0x00010001,0
HKR,Parameters\Port1,%LPM%,0x00010001,1
HKR,Parameters\Port1,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port1,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port1,%GTF%,0x00010001,1
HKR,Parameters\Port1,%DIPM%,0x00010001,1
HKR,Parameters\Port2,%AN%,0x00010001,0
HKR,Parameters\Port2,%LPM%,0x00010001,1
HKR,Parameters\Port2,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port2,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port2,%GTF%,0x00010001,1
HKR,Parameters\Port2,%DIPM%,0x00010001,1
HKR,Parameters\Port3,%AN%,0x00010001,0
HKR,Parameters\Port3,%LPM%,0x00010001,1
HKR,Parameters\Port3,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port3,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port3,%GTF%,0x00010001,1
HKR,Parameters\Port3,%DIPM%,0x00010001,1
HKR,Parameters\Port4,%AN%,0x00010001,0
HKR,Parameters\Port4,%LPM%,0x00010001,1
HKR,Parameters\Port4,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port4,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port4,%GTF%,0x00010001,1
HKR,Parameters\Port4,%DIPM%,0x00010001,1
HKR,Parameters\Port5,%AN%,0x00010001,0
HKR,Parameters\Port5,%LPM%,0x00010001,1
HKR,Parameters\Port5,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port5,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port5,%GTF%,0x00010001,1
HKR,Parameters\Port5,%DIPM%,0x00010001,1

[iaStor_EventLog_Inst]
AddReg = iaStor_EventLog_AddReg

[iaStor_EventLog_AddReg]
HKR,,EventMessageFile,%REG_EXPAND_SZ%,"%SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\drivers\iaStor.sys"
HKR,,TypesSupported,%REG_DWORD%,7

[Strings]
DiskName = "Intel Matrix Storage Manager Driver"
*PNP0600.DeviceDesc = "Intel AHCI Controller"
PCI\VEN_8086&DEV_2681&CC_0106.DeviceDesc = "Intel(R) ESB2 SATA AHCI Controller"
PCI\VEN_8086&DEV_27C1&CC_0106.DeviceDesc = "Intel(R) ICH7R/DH SATA AHCI Controller"
PCI\VEN_8086&DEV_27C5&CC_0106.DeviceDesc = "Intel(R) ICH7M/MDH SATA AHCI Controller"
PCI\VEN_8086&DEV_2821&CC_0106.DeviceDesc = "Intel(R) ICH8R/DH/DO SATA AHCI Controller"
PCI\VEN_8086&DEV_2829&CC_0106.DeviceDesc = "Intel(R) ICH8M-E/M SATA AHCI Controller"
PCI\VEN_8086&DEV_2922&CC_0106.DeviceDesc = "Intel(R) ICH9R/DO/DH SATA AHCI Controller"
PCI\VEN_8086&DEV_2929&CC_0106.DeviceDesc = "Intel(R) ICH9M-E/M SATA AHCI Controller"
PCI\VEN_8086&DEV_3A02&CC_0106.DeviceDesc = "Intel(R) ICH10D/DO SATA AHCI Controller"
PCI\VEN_8086&DEV_3A22&CC_0106.DeviceDesc = "Intel(R) ICH10R SATA AHCI Controller"
INTEL="Intel"
AN="AN"
LPM="LPM"
LPMSTATE="LPMSTATE"
LPMDSTATE="LPMDSTATE"
GTF="GTF"
DIPM="DIPM"

SPSVCINST_ASSOCSERVICE = 0x00000002

```
SERVICE_KERNEL_DRIVER  = 1
SERVICE_BOOT_START     = 0
SERVICE_ERROR_NORMAL   = 1
REG_EXPAND_SZ          = 0x00020000
REG_DWORD              = 0x00010001
```

看着挺长的一个驱动，而且貌似很复杂。不过看似复杂的东西，却有着很精密而且有章可循的规律。我们一段段的来分析这个驱动INF。

1、Version段

```
[version]
CatalogFile=iaAHCI.cat
Signature="$WINDOWS NT$"
Class=hdc
ClassGuid={4D36E96A-E325-11CE-BFC1-08002BE10318}
Provider=%INTEL%
DriverVer=07/20/2008,8.5.0.1032
```

CatalogFile，规定本驱动的认证文件是什么，例如例子中的是“iaAHCI.cat”，有了这个信息，在本驱动安装时，系统会去与本驱动同层的目录下寻找“iaAHCI.cat”文件以验了认证。如果您已经对驱动进行了修改，那么是肯定通不过认证的，所以这一行可以删除或注释掉。

Signature，大概的意思是驱动版本签名，没有修改的意义。

Class，驱动类别，规定本驱动属于哪类驱动，驱动类别可以到“HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class”注册表键值下详细查看。不过建议不要型，以免出现混乱。只要通过这个知道本驱动属于哪类驱动即可。

ClassGuid，驱动类别的Guid，查看上面所说的那个注册表键值，就会看到以Guid命名的各个类别。ClassGuid规定的类Guid与Class规定的类是相互对应的。

Provider，驱动供应商，等号后是%INTEL%，而%INTEL%是个可变的字符串，至于%INTEL%到底等于什么，在驱动INF的最末端“String”段中有着详细规定，随后我会

DriverVer，驱动版本，包括驱动日期和版本号，注意，这个格式是固定的，可以修改，但不要修改DriverVer的格式。

2、DestinationDirs段

```
[DestinationDirs]
DefaultDestDir = 12
CopyFullPort = 12
```

DefaultDestDir，设定默认将文件复制到哪个文件夹，“12”一般代表“Windows\System32\Drivers”文件夹。

CopyFullPort，当复制CopyFullPort段规定的文件时，将文件复制到“12”也就是“Windows\System32\Drivers”文件夹

3、CopyFullPort

```
[CopyFullPort]
iaStor.sys
```

复制当前目录下的iaStor.sys文件到目标文件夹，而目标文件夹已经在刚才的DestinationDirs段中规定了。

4、SourceDisksNames

```
[SourceDisksNames]
1 = %DiskName%,,,
```

由于我们这个是磁盘控制器的驱动，所以这个段是用于启动软盘的，意思是读取文件时从磁盘名为%DiskName%的存储器中读取，%DiskName%和version段中的%INT变的名字，具体名字是什么在String段中规定。

并规定1代表源磁盘

无论我们是做PNP的驱动，还是将来做SRS驱动，只要不做启动软盘，一般就不用修改这段内容。

5、SourceDisksFiles

```
[SourceDisksFiles]
iaStor.sys= 1
```

规定源磁盘中的文件。

6、ControlFlags

```
[ControlFlags]
ExcludeFromSelect=*
```

这个看字面意思，应该是被排除选择的硬件ID。但*的意思应当是一个都不排除。所以这一段具体什么意思我也没搞太清楚，不过修改这一段也的确没什么大意思。所以这一理。

7、Manufacturer

```
[Manufacturer]
%INTEL%=INTEL_HDC,ntamd64
```

字面意思似乎是规定的制造商，但实际上这个的意义很大。特别是等号后面的部分。
%INTEL%=INTEL_HDC,ntamd64
将会到下面的INTEL_HDC和INTEL_HDC. ntamd64段中搜索合适的驱动。一般到INTEL_HDC段下寻找合适的HWID，而如果是64位系统则到INTEL_HDC. ntamd64段下寻找合适的HWID。

8、INTEL_HDC和INTEL_HDC.ntamd64段

```
[INTEL_HDC]
%PCI\VEN_8086&DEV_2681&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_2681&CC_0106
%PCI\VEN_8086&DEV_27C1&CC_0106.DeviceDesc% = iaStor_Inst,PCI\VEN_8086&DEV_27C1&CC_0106
%PCI\VEN_8086&DEV_27C5&CC_0106.DeviceDesc% = iaStor_mobl_Inst,PCI\VEN_8086&DEV_27C5&CC_0106
%PCI\VEN_8086&DEV_2821&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_2821&CC_0106
%PCI\VEN_8086&DEV_2829&CC_0106.DeviceDesc% = iaStor_mobl_Inst, PCI\VEN_8086&DEV_2829&CC_0106
%PCI\VEN_8086&DEV_2922&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_2922&CC_0106
%PCI\VEN_8086&DEV_2929&CC_0106.DeviceDesc% = iaStor_mobl_Inst, PCI\VEN_8086&DEV_2929&CC_0106
%PCI\VEN_8086&DEV_3A02&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_3A02&CC_0106
%PCI\VEN_8086&DEV_3A22&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_3A22&CC_0106

[INTEL_HDC.ntamd64]
%PCI\VEN_8086&DEV_2681&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_2681&CC_0106
%PCI\VEN_8086&DEV_27C1&CC_0106.DeviceDesc% = iaStor_Inst,PCI\VEN_8086&DEV_27C1&CC_0106
%PCI\VEN_8086&DEV_27C5&CC_0106.DeviceDesc% = iaStor_mobl_Inst,PCI\VEN_8086&DEV_27C5&CC_0106
%PCI\VEN_8086&DEV_2821&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_2821&CC_0106
%PCI\VEN_8086&DEV_2829&CC_0106.DeviceDesc% = iaStor_mobl_Inst, PCI\VEN_8086&DEV_2829&CC_0106
%PCI\VEN_8086&DEV_2922&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_2922&CC_0106
%PCI\VEN_8086&DEV_2929&CC_0106.DeviceDesc% = iaStor_mobl_Inst, PCI\VEN_8086&DEV_2929&CC_0106
%PCI\VEN_8086&DEV_3A02&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_3A02&CC_0106
%PCI\VEN_8086&DEV_3A22&CC_0106.DeviceDesc% = iaStor_Inst, PCI\VEN_8086&DEV_3A22&CC_0106
```

这两段上面一段是32位系统的，下面是64位系统的，虽然较长，但仔细观察其键都遵循如下特点：
字符变量=驱动添加字段,HWID
每一个HWID对应一个描述它的字符变量，字符变量在String段中有规定，这个描述HWID的字符变量会在驱动安装好后显示在设备管理器中。
驱动添加字段，这个描述了该HWID的硬件驱动要以下述哪种段规定的方式添加驱动文件、服务、注册表。
HWID，规定了该驱动适合哪种HWID的硬件。
总体来说，驱动中的这一段是最重要的，如果你有合适的HWID也可以添加在其中，但一定要保证你添加的HWID是可用的。
MOD驱动，很大程度上是在MOD这一段。

9、iaStor_Inst

```
[iaStor_Inst]
AddReg = iaStor_Temp_parameters_AddReg
CopyFiles=CopyFullPort
FeatureScore=0x80
[iaStor_Inst.HW]
AddReg = iaStorSecurity.AddReg
[iaStor_Inst.Services]
AddService = iaStor, %SPSVCINST_ASSOCSERVICE%, iaStor_Service_Inst, iaStor_EventLog_Inst
```

iaStor_Inst，就是我们在上面HWID段里所规定的要执行的添加驱动文件、驱动服务的设定段。会首先执行iaStor_Inst段所规定的内容，随后执行iaStor_Inst.HW里规定的
行iaStor_Inst.Services段里规定的内容。也就是说iaStor_Inst代表了所有与iaStor_Inst相关的段。
iaStor_Inst段中，AddReg将会执行iaStor_Temp_parameters_AddReg段规定的添加注册表的活动；CopyFiles将会执行CopyFullPort段中规定的复制文件活动；FeatureSc
值，这个具体什么作用不是很清楚。
iaStor_Inst.HW段中，AddReg将会执行iaStorSecurity.AddReg段规定的添加注册表的活动。
iaStor_Inst.Services段中，AddService是以"iaStor, %SPSVCINST_ASSOCSERVICE%, iaStor_Service_Inst, iaStor_EventLog_Inst"为参数来添加一个服务，服务名为"iaSt
%SPSVCINST_ASSOCSERVICE%是一个字符串变量，执行iaStor_Service_Inst添加注册表中的服务，执行iaStor_EventLog_Inst添加EventLog（系统日志）。
这里，如果不想添加系统日志（例如在做SRS驱动时），可以把iaStor_EventLog_Inst参数去掉。

10、iaStorSecurity.AddReg

```
[iaStorSecurity.AddReg]
HKR,,Security,,"D:P(A;;FA;;;SY)(A;;FA;;;BA)(A;;FRFW;;;BU)"
```

这一段的意思似乎是添加安全认证相关的注册表，如果驱动没有CAT文件或者在修改后通不过驱动认证，这一段是否就可以删除掉？如果要删除请删除之前与它相关的其

11、iaStor_Service_Inst

```
[iaStor_Service_Inst]
DisplayName    = %*PNP0600.DeviceDesc%
ServiceType    = %SERVICE_KERNEL_DRIVER%
StartType      = %SERVICE_BOOT_START%
ErrorControl   = %SERVICE_ERROR_NORMAL%
ServiceBinary  = %12%\iaStor.sys
LoadOrderGroup = SCSI Miniport
AddReg         = iaStor_parameters_AddReg
```

这个是在前面调用的服务添加段

DisplayName，服务的显示名，这个和服务名不同。就像XP的Security Center服务，"Security Center"就是显示名，而其服务名则为"wscsvc"。
ServiceType，服务类型，String段规定了它的值。
StartType，服务启动类型，String段规定了它的值。
ErrorControl，错误控制，String段规定了它的值。
ServiceBinary，驱动文件路径，%12%在之前规定了为system32。
LoadOrderGroup，驱动服务所在组类型。
AddReg，为这个服务还要添加iaStor_parameters_AddRegduan段规定的键值，parameters一般规定添加服务运行或其他的一些参数之类

12、iaStor_parameters_AddReg

```
[iaStor_parameters_AddReg]
HKR,,Tag,%REG_DWORD%,25
HKR,Parameters,queuePriorityEnable,%REG_DWORD%,0
HKR,Parameters,BusType,0x00010001,0x0000003
HKR,Parameters\Port0,%AN%,0x00010001,0
HKR,Parameters\Port0,%LPM%,0x00010001,0
HKR,Parameters\Port0,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port0,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port0,%GTF%,0x00010001,0
HKR,Parameters\Port0,%DIPM%,0x00010001,0
HKR,Parameters\Port1,%AN%,0x00010001,0
HKR,Parameters\Port1,%LPM%,0x00010001,0
HKR,Parameters\Port1,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port1,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port1,%GTF%,0x00010001,0
HKR,Parameters\Port1,%DIPM%,0x00010001,0
HKR,Parameters\Port2,%AN%,0x00010001,0
HKR,Parameters\Port2,%LPM%,0x00010001,0
HKR,Parameters\Port2,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port2,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port2,%GTF%,0x00010001,0
HKR,Parameters\Port2,%DIPM%,0x00010001,0
HKR,Parameters\Port3,%AN%,0x00010001,0
HKR,Parameters\Port3,%LPM%,0x00010001,0
HKR,Parameters\Port3,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port3,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port3,%GTF%,0x00010001,0
HKR,Parameters\Port3,%DIPM%,0x00010001,0
HKR,Parameters\Port4,%AN%,0x00010001,0
HKR,Parameters\Port4,%LPM%,0x00010001,0
HKR,Parameters\Port4,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port4,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port4,%GTF%,0x00010001,0
HKR,Parameters\Port4,%DIPM%,0x00010001,0
HKR,Parameters\Port5,%AN%,0x00010001,0
HKR,Parameters\Port5,%LPM%,0x00010001,0
HKR,Parameters\Port5,%LPMSTATE%,0x00010001,0
HKR,Parameters\Port5,%LPMDSTATE%,0x00010001,1
HKR,Parameters\Port5,%GTF%,0x00010001,0
HKR,Parameters\Port5,%DIPM%,0x00010001,0
```

添加PORT的执行参数。

13、EventLog

```
[iaStor_EventLog_Inst]
AddReg = iaStor_EventLog_AddReg
[iaStor_EventLog_AddReg]
HKR,,EventMessageFile,%REG_EXPAND_SZ%,"%SystemRoot%\System32\IoLogMsg.dll;%SystemRoot%\System32\drivers\iaStor.sys"
HKR,,TypesSupported,%REG_DWORD%,7
```

这个就是在之前添加服务时被调用的EventLog添加段。
注：mobl的相关段与上述介绍十分相似，不再赘述

14、Strings段

```
[Strings]
DiskName                        = "Intel Matrix Storage Manager Driver"
*PNP0600.DeviceDesc                 = "Intel AHCI Controller"
PCI\VEN_8086&DEV_2681&CC_0106.DeviceDesc    = "Intel(R) ESB2 SATA AHCI Controller"
PCI\VEN_8086&DEV_27C1&CC_0106.DeviceDesc    = "Intel(R) ICH7R/DH SATA AHCI Controller"
PCI\VEN_8086&DEV_27C5&CC_0106.DeviceDesc    = "Intel(R) ICH7M/MDH SATA AHCI Controller"
PCI\VEN_8086&DEV_2821&CC_0106.DeviceDesc    = "Intel(R) ICH8R/DH/DO SATA AHCI Controller"
PCI\VEN_8086&DEV_2829&CC_0106.DeviceDesc    = "Intel(R) ICH8M-E/M SATA AHCI Controller"
PCI\VEN_8086&DEV_2922&CC_0106.DeviceDesc    = "Intel(R) ICH9R/DO/DH SATA AHCI Controller"
PCI\VEN_8086&DEV_2929&CC_0106.DeviceDesc    = "Intel(R) ICH9M-E/M SATA AHCI Controller"
PCI\VEN_8086&DEV_3A02&CC_0106.DeviceDesc    = "Intel(R) ICH10D/DO SATA AHCI Controller"
PCI\VEN_8086&DEV_3A22&CC_0106.DeviceDesc    = "Intel(R) ICH10R SATA AHCI Controller"
INTEL="Intel"
AN="AN"
LPM="LPM"
LPMSTATE="LPMSTATE"
LPMDSTATE="LPMDSTATE"
GTF="GTF"
DIPM="DIPM"

SPSVCINST_ASSOCSERVICE = 0x00000002
SERVICE_KERNEL_DRIVER  = 1
SERVICE_BOOT_START     = 0
SERVICE_ERROR_NORMAL   = 1
REG_EXPAND_SZ          = 0x00020000
REG_DWORD              = 0x00010001
```

我们之前所有用到的“%”包含字符串变量在这里都有对应的值，特别是HWID对应的这些字符串值，有兴趣可以改一下，可以添加一下自己的OEM，呵呵。

本文详细的介绍了驱动INF的基本形式，所有的驱动INF都基本遵循这个形式，但肯定不都是一模一样的，所以还要大家多多实践与摸索。

希望本文可以继续丰富大家的知识库！