

Configuring an IBM X-Architecture compute node's settings using IBM Advanced Settings Utility (ASU)

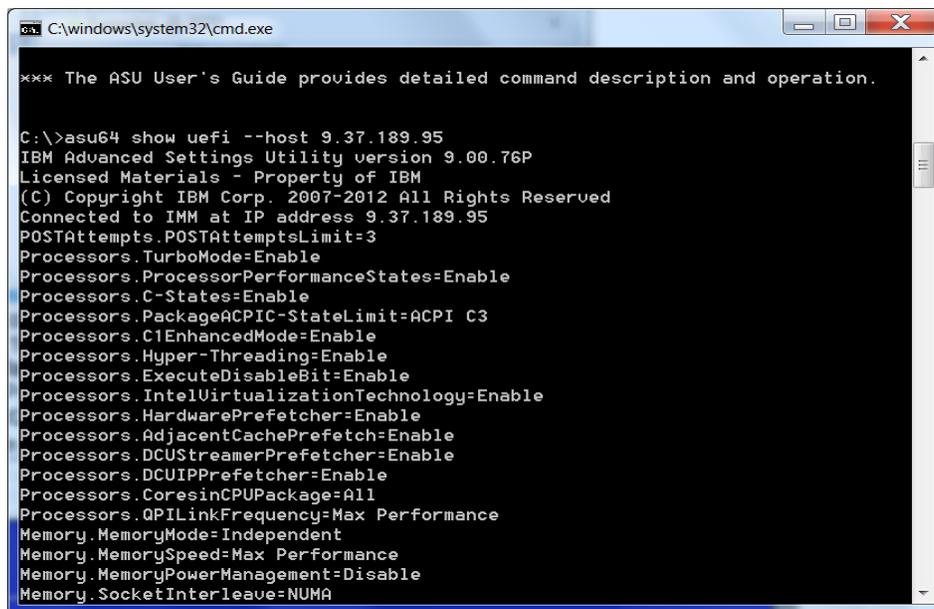
Prerequisites:

- One IBM Flex System Enterprise Chassis, one IBM X-Architecture compute node

Steps:

Refer to the following links for information on how to install and use the ASU:

- [IBM Advanced Settings Utility website](#)
 - [IBM Advanced Settings Utility User's Guide](#)
1. Use the show command to access the integrated management module (IMM) or unified extensible firmware interface (UEFI) using the ASU. You can specify UEFI or IMM. You will need the IP address of the IMM for this step. The command in the following figure shows the UEFI settings:



```
C:\windows\system32\cmd.exe
*** The ASU User's Guide provides detailed command description and operation.
C:\>asu64 show uefi --host 9.37.189.95
IBM Advanced Settings Utility version 9.00.76P
Licensed Materials - Property of IBM
(C) Copyright IBM Corp. 2007-2012 All Rights Reserved
Connected to IMM at IP address 9.37.189.95
POSTAttempts.POSTAttemptsLimit=3
Processors.TurboMode=Enable
Processors.ProcessorPerformanceStates=Enable
Processors.C-States=Enable
Processors.PackageACPIIC-StateLimit=ACPI C3
Processors.C1EnhancedMode=Enable
Processors.Hyper-Threading=Enable
Processors.ExecuteDisableBit=Enable
Processors.IntelVirtualizationTechnology=Enable
Processors.HardwarePrefetcher=Enable
Processors.AdjacentCachePrefetch=Enable
Processors.DCStreamerPrefetcher=Enable
Processors.DCUIPPrefetcher=Enable
Processors.CoresinCPUPackage=All
Processors.QPILinkFrequency=Max Performance
Memory.MemoryMode=Independent
Memory.MemorySpeed=Max Performance
Memory.MemoryPowerManagement=Disable
Memory.SocketInterleave=NUMA
```

The command in the following figure shows the IMM settings:

```

C:\>asu64 show imm --host 9.37.189.95
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Connected to IMM at IP address 9.37.189.95
IMM.ThermalModePolicy=Normal
IMM.PowerOnAtSpecifiedTime=0:0:0:0
IMM.ShutdownAndPowerOff=WD:HH:MM
IMM.PowerOnServer=WD:HH:MM
IMM.ShutdownAndRestart=WD:HH:MM
IMM.PXE_NextBootEnabled=Disabled
IMM.NodeLogicalID=
IMM.NodePartitionFlags=
IMM.IMMInfo_Name=
IMM.IMMInfo_Contact=
IMM.IMMInfo_Location=
IMM.IMMInfo_RoomId=
IMM.IMMInfo_RackId=
IMM.IMMInfo_Lowest_U=0
IMM.IMMInfo_Height=0
IMM.IMMInfo_BladeBay=10
IMM.OSWatchdog=Disabled

```

2. Use the show command to see the current boot order. Use the showvalues command to see all of the possible values for the command. Both commands are shown here:

```

C:\windows\system32\cmd.exe
IMM.IPv6DNS_IP_Address3=:
IMM.SMTP_ServerName=0.0.0.0
IMM.SMTP_Port=25

C:\>asu64 show bootorder --host 9.37.189.95
IBM Advanced Settings Utility version 9.00.76P
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Connected to IMM at IP address 9.37.189.95
BootOrder.BootOrder=CD/DVD Rom=Hard Disk 0=Legacy Only=PXE Network
BootOrder.Wo1BootOrder=PXE Network=CD/DVD Rom=Hard Disk 0

C:\>asu64 showvalues bootorder --host 9.37.189.95
IBM Advanced Settings Utility version 9.00.76P
Licensed Materials - Property of IBM
(C) Copyright IBM Corp. 2007-2012 All Rights Reserved
Connected to IMM at IP address 9.37.189.95
BootOrder.BootOrder=:CD/DVD Rom=Hard Disk 0=Legacy Only=PXE Network=Floppy Disk=
Hard Disk 1=Hard Disk 2=Hard Disk 3=Hard Disk 4=USB Storage=Diagnostics=iSCSI=iS
CSI Critical=Embedded Hypervisor=IMM1=IMM2=USB0=USB1=USB2=USB3=USB4=SAS=Slot1=Sl
ot1=Slot1=Slot2=Slot2=Slot2=Slot3=Slot3=NIC1=NIC2=DSA
BootOrder.Wo1BootOrder=:CD/DVD Rom=Hard Disk 0=Legacy Only=PXE Network=Floppy Di
sk=Hard Disk 1=Hard Disk 2=Hard Disk 3=Hard Disk 4=USB Storage=Diagnostics=iSCSI
=iSCSI Critical=Embedded Hypervisor=IMM1=IMM2=USB0=USB1=USB2=USB3=USB4=SAS=Slot1
=Slot1=Slot1=Slot2=Slot2=Slot2=Slot3=Slot3=NIC1=NIC2=DSA
Please refer to the ASU User's Guide for the settings which is marked as(*).

C:\>

```

3. Use the set command to change the boot order (or other settings), as shown here:

```

C:\>asu64 set Bootorder.Bootorder "Hard Disk 1=USB Storage=PXE Network" --host 9.37.189.95

```