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## 1. Write source code

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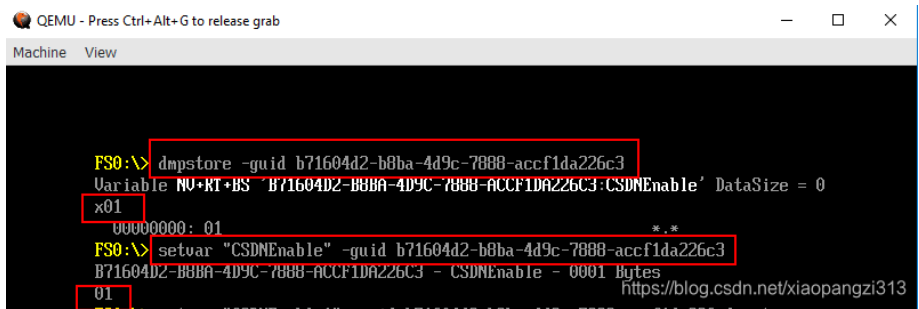
```

1      DataSize = sizeof (CSDNEnable);
2      Status = gRT->SetVariable (
3          L"CSDNEnable",
4          &EfiCsdnEnableGuid,
5          EFI_VARIABLE_NON_VOLATILE |
6          EFI_VARIABLE_BOOTSERVICE_ACCESS |
7          EFI_VARIABLE_RUNTIME_ACCESS,
8          DataSize,
9          &CSDNEnable
10         );
11
12     ASSERT(Status);
13     DEBUG ((EFI_D_ERROR, " [CSDN]: Setvariable CSDNEnable 0x%x.\n", CSDNEnable));
14
15     CSDNEnable = 0;
16     DataSize = sizeof (CSDNEnable);
17     Status = gRT->GetVariable (
18         L"CSDNEnable",
19         &EfiCsdnEnableGuid,
20         NULL,
21         &DataSize,
22         &CSDNEnable
23     );
24     ASSERT(Status);
25
26     if (CSDNEnable) {
27         DEBUG ((EFI_D_ERROR, "[CSDN] CSDNEnable\n"));
28     }

```

收起 ^

You can also use the command under Shell **setvar** , **dmpstore** , to view the value of the newly created Variable.



UEFI Variable can be used for communication between different drivers, which is a very good module sharing mechanism. Variable services are provided by BS, RT, and SMM. The corresponding services should be used in different phases. For example, in the SMM handler, you should use

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```
1 Status = gSmst->SmmLocateProtocol ( &gEfiSmmVariableProtocolGuid, NULL, (VOID**)&mSmmVariable)
2 mSmmVariable->SmmSetVariable(...)
3 mSmmVariable->SmmGetVariable(...)
```

Otherwise it will fail.

PEI Phase is used as follows ( 注意PEI阶段没有setvariable 操作 )

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```
1 pPeiServices = (EFI_PEI_SERVICES**)(UINTN)Host->var.common.oemVariable;
2 //Read the EFI variable that stores TME Key
3 Status = (*pPeiServices)->LocatePpi (
4     pPeiServices,
5     &gEfiPeiReadOnlyVariable2PpiGuid,
6     0,
7     NULL,
8     (void **)&pPeiVariable
9 );
10 Status = pPeiVariable->GetVariable (pPeiVariable, L"CSDNEnable", &gEfiCsdnEnableGuid, NULL, &Size, (void *)&CSDNEnable);
11
```

收起 ^

Linux write variable cmd:

```
chattr -i /sys/firmware/efi/efivars/CSDNEnable-dc1254bf-b8bd-4dec-8878-acbf1da226c3>/dev/null;

printf"\x07\x00\x00\x00\x01\x00\x00\x00\x00\x00\x00">/sys/firmware/efi/efivars/CSDNEnable-dc1254bf-b8bd-4dec-8878-bccf1da226c3;
```

Linux dumpvariable cmd:

```
hexdump /sys/firmware/efi/efivars/CSDNEnable-dc1254bf-b8bd-4dec-8878-bccf1da226c3
```

Variable DEMO source code

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