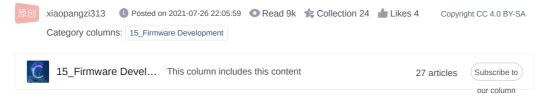
UEFI Basic Tutorial (Seventeen) - Simple Use of SMM



1. Write SMM driver to register SMM service

1. Use SwDispatch Demo1

```
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                                                            Al generated projects
  1 | EFI_STATUS
  2 EFIAPI
  3 CsdnSmiHandler (
     IN EFI_HANDLE DispatchHandle,
  5
     IN CONST VOID *Context OPTIONAL,
  6
     IN OUT VOID *CommBuffer OPTIONAL,
  7
      IN OUT UINTN *CommBufferSize OPTIONAL
  8
      )
  9
 10
        DEBUG((EFI_D_ERROR, "[CSDN] %a Enter\n", __FUNCTION__));
 11
       // 实现SMM服务
 12
       DEBUG((EFI_D_ERROR,"[CSDN] %a Exit\n", __FUNCTION__));
 13
        return EFI_SUCCESS;
 14 }
 15
 16
 17 | Status = gSmst->SmmLocateProtocol(
 18
      &gEfiSmmSwDispatch2ProtocolGuid,
 19
        NULL,
 20
        (VOID **)&SwDispatch
twen
twen
twen SwContext.SwSmiInputValue = CSDN_SW_SMI_NO; //自定义SMI Number
twen ASSERT_EFI_ERROR(SwContext.SwSmiInputValue < SwDispatch->MaximumSwiValue);
 26 | Status = SwDispatch->Register(
 27
         SwDispatch,
 28
           CsdnSmiHandler.
 29
            &SwContext.
 30
            &SwSmiHandle
 31
        );
 32
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```

2. Use gSmst->SmiHandlerRegister Demo2

```
Al generated projects
                                                                                       登录复制
1 | EFI_STATUS
 2 EFIAPI
 3 SmmCsdnSmiHandler (
     IN EFI HANDLE DispatchHandle,
    IN CONST VOID *Context OPTIONAL,
IN OUT VOID *CommBuffer OPTIONAL,
 6
 7
    IN OUT UINTN *CommBufferSize OPTIONAL
8
 9
   {
10
      DEBUG((EFI_D_ERROR, "[CSDN] %a Enter\n", __FUNCTION__));
11
      //可以将SMM RAM 内容copy回 communication buffer
12
        DEBUG((EFI_D_ERROR,"[CSDN] %a Exit\n", __FUNCTION__));
13
        return EFI_SUCCESS;
14 }
15
16
```

```
ΤU
      Status = gSmst->SmiHandlerRegister(
 17
          SmmCsdnSmiHandler,
 18
          &gCsdnSmmGuid,
 19
          &DispatchHandle
 20
twen
1 0 >
```

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2. Triggering SMM service

1. Use **I0** Demo3

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IoWrite8 (0xB2, CSDN_SW_SMI_NO);

2. Use SmmCommunication to access SMM Demo4

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1 | Status = SmmCommunication->Communicate(SmmCommunication, CommBuffer, &CommSize);

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