







# UEFI Basic Tutorial (Thirteen) - Simple Use of VFR and HFR

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 **摘要** This article details how to customize the interface by modifying the source code on the UEFI platform, including adding string resource s, creating menus and callback functions, and compiling and running processes. It also shows how to use VFR, HFR, and C files to dynamically updat e configuration values.

The summary is generated in [C Know](#) , supported by DeepSeek-R1 full version, [go to experience](#)>

## I. Modify UEFI UiApp source code

1. Modify FrontPageStrings.uni and FrontPageVfr.Vfr
- and add string resources to MdeModulePkg/Application/UiApp/FrontPageStrings.uni

AI generated projects 登录复制

1 //Add CSDN UI resources

2 #string STR\_CSDN\_BANNER\_LEFT #language en-US "Csdn Bannder Left"

3 #string STR\_CSDN\_BANNER\_RIGHT #language en-US "Csdn Bannder Right"

4

5 #string STR\_CSDN\_STRING #language en-US "CsdnText"

6 #language fr-FR "CsdnText"

7 #string STR\_CSDN\_STRING\_HELP #language en-US "CsdnText the current setting."

8 #language fr-FR "CsdnText the current setting."

9

10 #string STR\_CSDN\_RADIO\_STRING #language en-US "CsdnRdioBtn"

11 #language fr-FR "CsdnRdioBtn"

12 #string STR\_CSDN\_RADIO\_STRING\_HELP #language en-US "CsdnRadio the current setting."

13 #language fr-FR "CsdnRadio the current setting."

14

15 #string STR\_CSDN\_STRING\_RADIO\_1 #language en-US "Csdn Radio Button No 1"

16 #string STR\_CSDN\_STRING\_RADIO\_2 #language en-US "Csdn Radio Button No 2"

17 #string STR\_CSDN\_STRING\_RADIO\_3 #language en-US "Csdn Radio Button No 3"

18 #string STR\_CSDN\_STRING\_RADIO\_4 #language en-US "Csdn Radio Button No 4"

19 #string STR\_CSDN\_STRING\_RADIO\_5 #language en-US "Csdn Radio Button No 5"

20 #string STR\_CSDN\_STRING\_RADIO\_6 #language en-US "Csdn Radio Button No 6"

twen #string STR\_CSDN\_STRING\_RADIO\_7 #language en-US "Csdn Radio Button No 7"

twen

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Modify FrontPageVfr.Vfr's Lable

MdeModulePkg/Application/UiApp/FrontPageVfr.Vfr

AI generated projects 登录复制

1 banner

2 title = STRING\_TOKEN(STR\_CSDN\_BANNER\_LEFT),

3 line 4,

4 align left;

5

6 banner

7 title = STRING\_TOKEN(STR\_CSDN\_BANNER\_RIGHT),

8

```
9 |         line 4,  
        align right;
```

2. Modify FrontPageCustomizedUi.c and FrontPageCustomizedUiSupport.c  
to add Oneof (RadioButton) menu  
MdeModulePkg/Application/UiApp/FrontPageCustomizedUi.c

AI generated projects

登录复制

```
1  /**  
2   Customize menus in the page.  
3  
4   @param[in]  HiiHandle           The HII Handle of the form to update.  
5   @param[in]  StartOpCodeHandle   The context used to insert opcode.  
6   @param[in]  CustomizePageType   The page type need to be customized.  
7  
8  **/  
9  VOID  
10 UiCustomizeFrontPage (  
11     IN EFI_HII_HANDLE  HiiHandle,  
12     IN VOID             *StartOpCodeHandle  
13 )  
14 {  
15     //  
16     // Create "Select CSDN" menu with Oneof opcode.  
17     //  
18     UiCreateCsdnRadioMenu(HiiHandle, StartOpCodeHandle);  
19  
20     ...  
21  
22     //  
23     // Create csdn menu.  
24     //  
25     UiCreateCsdnMenu(HiiHandle, StartOpCodeHandle);  
26 }  
27
```

收起 ^

MdeModulePkg/Application/UiApp/FrontPageCustomizedUiSupport.c

AI generated projects

登录复制

```
1  // 定义 Callback  
2  EFI_STATUS  
3  CsdnRadioChangeHandler (  
4     IN  EFI_IFR_TYPE_VALUE          *Value  
5 )  
6 {  
7     EFI_STATUS                      Status;  
8  
9     CHAR8 *CsdnText = "Csdn Radio Button No 1";
```

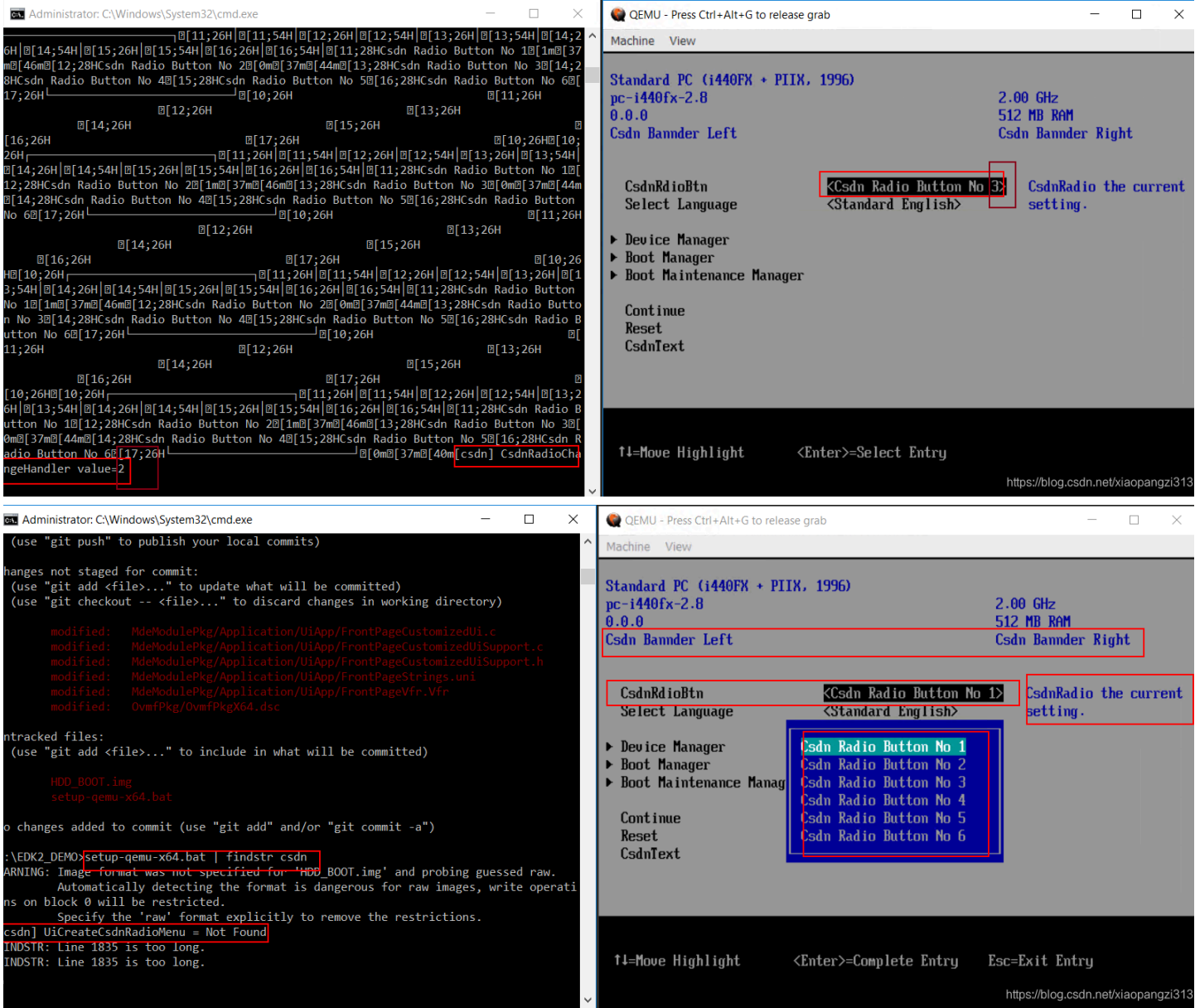
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## 2. Compile and generate EFI files

Run `edksetup.bat` && build -a X64 -p OvmfPkg\OvmfPkgX64.dsc -D DEBUG\_ON\_SERIAL\_PORT -t VS2013x86 to compile the entire OvmfPkg Package

## 3. Run UEFI

Execute `setup-qemu-x64.bat` | findstr csdn



## V. Summary

On the UEFI platform, you can configure the SETUP interface by modifying VFR/HFR and other related files. The UNI file is used to store resources, and the C file is used as a driver to dynamically update configuration values.

## /FR DEMO source code

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