

## Placing a function in a particular location in flash

To do this I modified the LCF as follows.

```
/******  
resetvector:      org = 0x00030000,   len = 0x00000010  
init:             org = 0x00030010,   len = 0x00000FF0 /* ~4K */  
exception_handlers_p0: org = 0x00080000,   len = 0x00010000  
exception_handlers_p1: org = 0x00090000,   len = 0x00010000  
internal_flash:   org = 0x000A0000,   len = 0x00090000 /* 1792 KB*/  
myrom_1:         org = 0x00130000,       len = 0x00004000  
key_segment:     org = 0x0013FFF8,   len = 0x00000008 /* 8 byte for key*/  
/******  
  
/******  
GROUP : {  
.rom_symbols1 (VLECODE):  
{  
    __ROM_SYMBOLS = 0x00130000; /* start address of the new symbol area */  
    . = ALIGN (0x4);  
    *(.romsymbols1) /* actual data matching pragma directives. */  
    . = ALIGN (0x4);  
}  
} > myrom_1  
  
.__key_segment LOAD (0x0013FFF8): {} > key_segment  
/******
```

In source code I declared the function as follows.

```
#pragma section RX ".romsymbols1" code_mode=far_abs  
__declspec(section ".romsymbols1") void funcInROM_Test_1(int flag,int *);  
//Function Prototype
```

```
#pragma push  
#pragma section all_types ".__key_segment" ".__key_segment"  
unsigned long long key = BOOT_KEY;  
#pragma pop
```

```
void funcInROM_Test_1(int flag,int *iData)  
{  
    const int i = 55;  
    if (flag > 0)  
    {  
        flag ++;  
    }  
    *iData = 111;  
}
```



A screenshot of the location 0x00130000 is given below.

```
61370 S3190012FFF800000000000000000000000000000000000000000000000000000DD
61371 S3190013000C000000000000000000000000000000000000000000000000000C7
61372 S31900130020000000000000000000000000000000000000000000000000000B3
61373 S319001300340000000000000000000000000000000000000000000000000009F
61374 S319001300480000000000000000000000000000000000000000000000000008B
61375 S3190013005C00000000000000000000000000000000000000000000000000077
61376 S3190013007000000000000000000000000000000000000000000000000000063
61377 S319001300840000000000000000000000000000000000000000000000000004F
61378 S319001300980000000000000000000000000000000000000000000000000003B
61379 S319001300AC000000000000000000000000000000000000000000000000000027
```

This made me really confused. Somebody please help me to solve this problem.  
I will appreciate any help.

Thank you all.