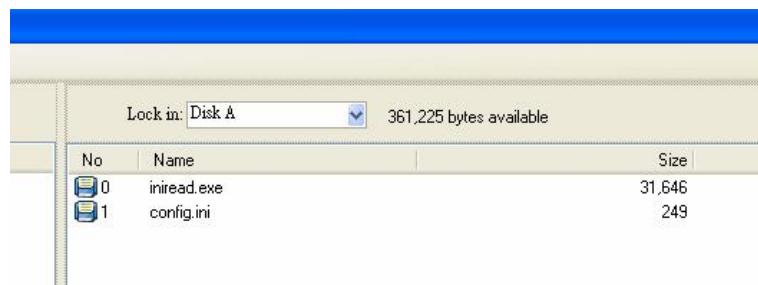


How to operate the ini file in MiniOS7 system

Part I: Quick start for this demo program.

Please follow steps below to run this demo program.

1. There are many applications need to use configure file which know as ini file to provide parameters for program, MiniOS7 library can use on board Flash to store exe file and configure file. This demo will show how to get the string parameter from ini file and then convert to integer, long, float data, also it can convert hex format string to integer or long data.
2. In MiniOS7 system, the default Flash can be used as storage device, the default Flash can be separate into disk A and disk B, the default configuration is disk A.
3. We can load all exe, autoexec.bat and configure ini file to the same disk A



The right executed result will be as below.

```
Read INI Demo...
Select the disk which store the config.ini
DiskA = 0
DiskB = 1: 0
C001 get string data = String Data
C002 = 1234 Convert to decimal int data=1234
C003 = 12345678 Convert to long decimal data =12345678
C004 = 55aa , Convert to long hex data= 55aa
C005 = 3.14159 . Convert float data= 3.141590
C006 can not find data after ';' = 0000
C007 try to find a non-exist key = 0000
Press any key to retry this demo , 'q' or 'Q' to quit this demo !
```

```
[AAAA]
C001=String Data
C002=1234
C003=12345678
C004=55aa
C005=3.14159
;C006=FFFF

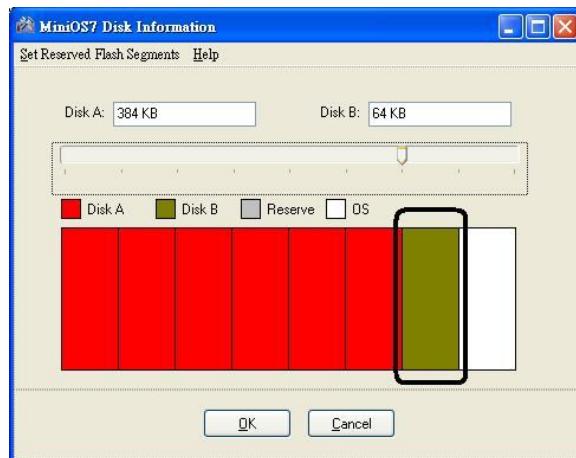
[BBBB]
C001=AAAA
C002=BBBB
C003=CCCC
C004=DDDD
C005=EEEE

[CCCC]
C001=AAAA
C002=BBBB
C003=CCCC
C004=DDDD
C005=EEEE
```

If the configure is not exist in selected disk, the result will be as below.

```
Read INI Demo...
Select the disk which store the config.ini
DiskA = 0
DiskB = 1: 0
Can not find config.ini in disk DiskA
Press any key to retry this demo , 'q' or 'Q' to quit this demo !
```

4. We can also load exe, autoexec.bat file to disk A and configure ini file to disk B.
please use MiniOS7 utility to set disk as A, and B



use Disk A to store the exe file
use Disk B to store the config file

No	Name	Size
0	iniread.exe	31,646

No	Name	Size
0	config.ini	249

The right executed result will be as below.

```

Read INI Demo...
Select the disk which store the config.ini
DiskA = 0
DiskB = 1:1
C001 get string data = String Data
C002 = 1234 Convert to decimal int data=1234
C003 = 12345678 Convert to long decimal data =12345678
C004 = 55aa , Convert to long hex data= 55aa
C005 = 3.14159 , Convert float data= 3.141590
C006 can not find data after ';' = 0000
C007 try to find a non-exist key = 0000
Press any key to retry this demo , 'q' or 'Q' to quit this demo !
[AAAA]
C001=String Data
C002=1234
C003=12345678
C004=55aa
C005=3.14159
;C006=FFFF

[BBBB]
C001=AAAA
C002=BBBB
C003=CCCC
C004=DDDD
C005=EEEE

[CCCC]
C001=AAAA
C002=BBBB
C003=CCCC
C004=DDDD
C005=EEEE

```

If the configure is not exist in selected disk, the result will be as below.

```
Read INI Demo...
Select the disk which store the config.ini
DiskA = 0
DiskB = 1: 1
Can not find config.ini in disk DiskB
Press any key to retry this demo , 'q' or 'Q' to quit this demo !
```

5. We don't use autoexec.bat file in this demo program, we just have one exe file and one config.ini file.

You can follow steps as below to test this demo program.

Part II: Description of API function in this demo.

```
int GetINIString (char *section, char *key, char *defaultStr,char *returnStr, int buffer_len ,int disk, char *file_name);
```

The data pattern of ini file will be like

[Section_String]

Key_String = Val_String

Parameters:

section: The name of the section containing the key name. Section of ini file is enclosed by "[" and "]"

key: The name of the key whose associated string is to be retrieved

defaultStr: if key cannot be found in ini file, then the returnStr will be defaultStr

returnStr: A pointer to the buffer that receives the retrieved string.

buffer_len: The size of the buffer pointed to by the returnStr parameter, in characters.

Disk: 0 diskA ; 1 diskB

File_name: the name of ini file.

Return 0 file not exist in disk, else the size of return string.

Example:

```
int diskB=1;  
  
int ret=0;  
  
char valStr[32];  
  
ret= GetINIString("AAAA","C001","0000", valStr,32,diskB,"config.ini");  
if( !ret ) // means ret ==0  
{  
    Print("Can not find config.ini in disk \n");  
}  
Else  
{  
    Print("C001 = %s \n",valStr);  
}
```

Part III: Data conversion of string to figure.

The data get from configure ini file is string format, most applications wish to use these string data as decimal/hex format integer, long or float format figures. This demo also shows how to convert them.

String to decimal integer

```
int iVal;  
ret = GetINIString("AAAA","C002","10", valStr,32,disk,"config.ini");  
// use sscanf to convert valStr to iVal  
sscanf(valStr,"%d", &iVal); // %d as int format  
// print the to verify the result.  
Print("C002 = %s Convert to decimal int data=%d\n",valStr,iVal);
```

String to decimal long

```
long lVal;  
ret = GetINIString("AAAA","C003","10000", valStr,32,disk,"config.ini");  
// use sscanf to convert valStr to lVal  
sscanf(valStr,"%ld", &lVal); // %ld as long format  
// print the to verify the result.  
Print("C003 = %s Convert to decimal long data=%ld\n",valStr,lVal);
```

String to hex long

```
long lVal;  
ret = GetINIString("AAAA","C004","10000", valStr,32,disk,"config.ini");  
// use sscanf to convert valStr to lVal  
sscanf(valStr,"%lx", &lVal); // %lx as long hex format, if int hex format %x  
// print the to verify the result.  
Print("C004 = %s , Convert to long hex data= %lx\n",valStr,lVal);
```

String to float

```
float fVal;  
ret = GetINIString("AAAA","C005","0.5", valStr,32,disk,"config.ini");  
// use sscanf to convert valStr to fVal  
sscanf(valStr,"%f", &fVal); // %f as float format  
// print the to verify the result.  
Print("C005 = %s , Convert float data= %f\n",valStr, fVal);
```