

2010 年 07 月 05 日 星期一 17:25

CrashRpt 中除了错误处理之外值得学习的地方还是不少的，如屏幕截图、邮件发送。

这里主要提取屏幕截图的功能。

1. 从 CrashRpt 源码目录中分别复制 minizip、zlib、libpng 到一个目录作为公共库使用，并分别编译它们生成 lib，需要设置工程属性为“多线程调试 (/MTd)”。
2. 在公共目录新建 ScreenCap 目录，复制 ScreenCap.h、ScreenCap.cpp 到 ScreenCap 目录。
3. 在你的 MFC 工程中添加过滤器 ScreenCap，并把 ScreenCap.h、ScreenCap.cpp 导入进来。
4. 复制核心代码并做相应修改：

```
// This method compresses the files contained in the report and produces ZIP archive.
BOOL CompressFileAsZip(vector<CString>vtFiles, CString strZipFileName)
{
    CStringA strZipFileNameA;
    BOOL bStatus = FALSE;
    zipFile hZip = NULL;
    CString sMsg;
    LONG64 lTotalSize = 0;
    LONG64 lTotalCompressed = 0;
    BYTE buff[1024];
    DWORD dwBytesRead=0;
    HANDLE hFile = INVALID_HANDLE_VALUE;
    LARGE_INTEGER lFileSize;
    BOOL bGetSize = FALSE;

    strZipFileNameA=strZipFileName;
    hZip = zipOpen(strZipFileNameA, APPEND_STATUS_CREATE);
    if(hZip==NULL)
    {
        TRACE(_T("Failed to create ZIP file."));
        goto cleanup;
    }

    for(vector<CString>::iterator iter=vtFiles.begin();
        iter!=vtFiles.end(); ++iter ){
```

```

CStringA sDstFileNameA;
CString sFileName=*iter;
int nPos=sFileName.ReverseFind('\\');
if ( nPos!=-1 ){
sDstFileNameA=sFileName.Mid(nPos+1);
}else{
sDstFileNameA=sFileName;
}
CString sDesc = _T("描述");
CStringA sDescA;
sDescA=sDesc;

sMsg.Format(_T("Compressing %s\n"), sDstFileNameA);
TRACE(sMsg);

HANDLE hFile = CreateFile(sFileName,
GENERIC_READ, FILE_SHARE_READ, NULL, OPEN_EXISTING, NULL, NULL);
if(hFile==INVALID_HANDLE_VALUE)
{
sMsg.Format(_T("Couldn't open file %s\n"), sFileName);
TRACE(sMsg);
continue;
}

lGetSize = GetFileSizeEx(hFile, &lFileSize);
if(!lGetSize)
{
sMsg.Format(_T("Couldn't get file size of %s\n"), sFileName);
TRACE(sMsg);
CloseHandle(hFile);
continue;
}

lTotalSize += lFileSize.QuadPart;

BY_HANDLE_FILE_INFORMATION fi;
GetFileInformationByHandle(hFile, &fi);

SYSTEMTIME st;
FileTimeToSystemTime(&fi.ftCreationTime, &st);

zip_fileinfo info;
info.dosDate = 0;
info.tmz_date.tm_year = st.wYear;

```

```

info.tzm_date.tm_mon = st.wMonth;
info.tzm_date.tm_mday = st.wDay;
info.tzm_date.tm_hour = st.wHour;
info.tzm_date.tm_min = st.wMinute;
info.tzm_date.tm_sec = st.wSecond;
info.external_fa = FILE_ATTRIBUTE_NORMAL;
info.internal_fa = FILE_ATTRIBUTE_NORMAL;

int n = zipOpenNewFileInZip( hZip, sDstFileNameA, &info,
NULL, 0, NULL, 0, sDescA, Z_DEFLATED, Z_DEFAULT_COMPRESSION);
if (n!=0)
{
sMsg.Format(_T("Couldn't compress file %s\n"), sDstFileNameA);
TRACE(sMsg);
continue;
}

for(;;)
{
BOOL bRead = ReadFile(hFile, buff, 1024, &dwBytesRead, NULL);
if (!bRead || dwBytesRead==0)
break;

int res = zipWriteInFileInZip(hZip, buff, dwBytesRead);
if (res!=0)
{
zipCloseFileInZip(hZip);
sMsg.Format(_T("Couldn't write to compressed file %s\n"), sDstFileNameA);
TRACE(sMsg);
break;
}

lTotalCompressed += dwBytesRead;
}

zipCloseFileInZip(hZip);
CloseHandle(hFile);
hFile = INVALID_HANDLE_VALUE;
}

if (lTotalSize==lTotalCompressed)
bStatus = TRUE;

cleanup:

```

```

if(hZip!=NULL)
zipClose(hZip, NULL);

if(hFile!=INVALID_HANDLE_VALUE)
CloseHandle(hFile);

if(bStatus)
TRACE(_T("Finished compressing files...OK"));
else
TRACE(_T("File compression failed."));

sMsg.Format(_T("Total file size for compression is %I64d"), lTotalSize);

return bStatus;
}

void CtestdlgDlg::OnBnClickedOk()
{
CScreenCapture sc;
DWORD dwFlags = CR_AS_VIRTUAL_SCREEN;

CPoint m_ptCursorPos;
GetCursorPos(&m_ptCursorPos);
std::vector<CString> screenshot_names;

CString m_sErrorReportDirName=_T("C:\\");

if(dwFlags==CR_AS_VIRTUAL_SCREEN){
// Take screenshot of entire desktop
CRect rcScreen;
sc.GetScreenRect(&rcScreen);

BOOL bTakeScreenshot = sc.CaptureScreenRect(rcScreen, m_ptCursorPos,
m_sErrorReportDirName, 0, screenshot_names);
if(bTakeScreenshot==FALSE){
return;
}
}else if(dwFlags==CR_AS_MAIN_WINDOW){
// Take screenshot of the main window
CRect rcWnd;
GetWindowRect(&rcWnd);
BOOL bTakeScreenshot = sc.CaptureScreenRect(rcWnd, m_ptCursorPos,
m_sErrorReportDirName, 0, screenshot_names);

```

```
if (bTakeScreenshot==FALSE) {  
    return;  
}  
}else{  
    // Invalid flags  
    ATLASSTERT(0);  
    return;  
}  
  
//    vector<CString>vtFiles;  
//    vtFiles.push_back(_T("C:\\"));  
CompressFileAsZip(screenshot_names, _T("C:\\1. ZIP"));  
AfxMessageBox(_T("OK"));  
}
```

5. 工程链接输入: libpng\\lib\\libpngd.lib zlib\\lib\\zlibd.lib minizip
\\lib\\minizipd.lib