

Using FSRead to Read from a File

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/* Using FSRead to Read from a File
 * This is a simple demonstration of using SFGetFile, FSOpen and FSRead. It
 * prompts the user for a text file and then writes the contents of that file to the
 * console window. It is intended only as an example and so contains a minimum of
 * error handling.
 */

// Assumes inclusion of <MacHeaders>
#include <stdio.h>
#include <stdlib.h>

void ToolBoxInit (void);
void GetAFile (Handle* handleToFileData, long *fileSize);

void ToolBoxInit ()
{
    InitGraf (&thePort);
    InitFonts ();
    InitWindows ();
    InitMenus ();
    TEInit ();
    InitDialogs (nil);
    InitCursor ();
}

void GetAFile (Handle* handleToFileData, long *fileSize)
{
    short          fileRefNum;
    SFTypeList     typeList;
    Point          where;
    SFReply        aReply;
    OSErr          err;
    long           count;

    SetPt (&where, 0, 0);
    typeList[0] = 'TEXT';
    SFGetFile (where, nil, nil, 1, typeList, nil, &aReply);
    if (aReply.good)
    {
        err = FSOpen (aReply.fName, aReply.vRefNum, &fileRefNum);
        if (!err) {
            err = GetEOF (fileRefNum, fileSize);
            if (!err) {
                if (fileSize == 0)
                {
                    printf ("Nothing in file\n");
                    exit (1);
                }
                *handleToFileData = NewHandle (*fileSize);
                if (*handleToFileData == nil)
                {
                    printf ("Sorry, the file is too big to read at once\n");
                    err = FSClose (fileRefNum);
                    exit (1);
                }
            }
        }
    }
}

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    }
    HLock (*handleToFileData);
    count = *fileSize;
    err = FSRead (fileRefNum, &count, **handleToFileData);
    if ((err) || (count != *fileSize)) {
        printf ("Problem reading file\n");
        err = FSClose (fileRefNum);
        exit (1);
    }
    HUnlock (*handleToFileData);
}
else {
    printf ("Problem getting size of file\n");
    err = FSClose (fileRefNum);
    exit (1);
}
}
else {
    printf ("Problem opening file\n");
    exit (1);
}
}
}

main ()
{
    Handle handleToData;
    short      i;
    long      fileSize;

    ToolBoxInit();
    GetAFile (&handleToData, &fileSize);
    HLock (handleToData);
    for (i = 0; i < fileSize; i++)
        if (((*handleToData)[i]) == '\r')
            putchar ('\n');
        else
            putchar ((*handleToData)[i]);
    HUnlock (handleToData);
    while (!Button ());
}

```