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Chapter 1

Sourcecode: Example2.c

1.1 Example2.c

```
Amiga C Club (ACC) */
/* Amiga C Encyclopedia (ACE)
/*
                                                    */
                               Amiga C Club
Tulevagen 22
181 41 LIDINGO
/* Manual: AmigaDOS
                                                     */
/* Chapter: Advanced Routines
/* File: Example2.c
                                                     */
/* Author: Anders Bjerin
                                  SWEDEN
                                                     */
/* Date: 93-03-17
/* Version: 1.0
/*
                                                     */
/*
  Copyright 1993, Anders Bjerin - Amiga C Club (ACC)
                                                     */
/* Registered members may use this program freely in their */
  own commercial/noncommercial programs/articles. */
/\star This example does exactly the same thing as the previous one, \star/
/* it simply demonstrates how to use the Examine() function. */
/* However, this example uses the new AllocDosObject() and
/* FreeDosObject() functions which were introduced in Release 2. */
/st You should use these new functions (if possible) instead of st/
/* using the older method of allocating a fixed amount of memory */
/* for the dos object (the FileInfoBlock structure).
                                                           */
                                                           */
/* This example can only be used with dos library V37 or higher. */
/* Include the dos library definitions: */
#include <dos/dos.h>
#include <clib/dos_protos.h> /* General dos functions... */
#include <ctio b>
#include <stdio.h>
                               /* Std functions [printf()...] */
```

```
#include <stdlib.h>
                                   /* Std functions [exit()...] */
#include <string.h>
                                    /* Std functions [strlen()...] */
/\star Set name and version number: \star/
UBYTE *version = "$VER: AmigaDOS/Advanced Routines/Example2 1.0";
/* Declare an external global library pointer to the Dos library: */
extern struct DosLibrary *DOSBase;
/* Declared our own function(s): */
/* Our main function: */
int main( int argc, char *argv[] );
/* Main function: */
int main( int argc, char *argv[] )
  /* "BCPL" pointer to our lock: */
 BPTR my_lock;
  /* Pointer to our FileInfoBlock which we will allocate: */
  struct FileInfoBlock *my_fib;
  /* AmigaDOS boolean check variable: */
  LONG ok;
  /\star We need dos library V37 or higher: \star/
  if( DOSBase->dl_lib.lib_Version < 37 )</pre>
    /\star The user has a dos library which is too old! \star/
    printf( "This program needs dos library V37 or higher!\n" );
    /* Exit with an error code: */
    exit( 20 );
  /* This program needs one arguement: */
  /* (a file, directory or volume name) */
  if( argc != 2 )
    /* Wrong number of arguments! */
    printf( "Error! Wrong number of arguments!\n" );
    printf( "You must enter a file, directory or volume name.\n" );
    printf( "Example2 Name/A\n" ); /* Simple template */
```

```
/* Exit with an error code: */
  exit( 21 );
/* 1. Try to lock the object: (Shared access is enough.) */
my_lock = Lock( argv[ 1 ], SHARED_LOCK );
/* Could we lock the object? */
if( !my_lock )
  /* Problems! Inform the user: */
 printf( "Could not lock the object!\n" );
 /* Exit with an error code: */
  exit( 22 );
/\star 2. Create a FileInfoBlock structure with help of the
/* new AllocDosObject() function. Note that this function
/\star needs dos library V37 or higher! Note also that anything \star/
/\star we allocate with this function must be deallocated with \star/
/* help of the FreeDosObject() function!
                                                               */
/* (Type FileInfoBlock structure and no Tags.)
                                                               */
my_fib = AllocDosObject( DOS_FIB, NULL );
/* Check if we have allocated the memory successfully: */
if( !my_fib )
  /* Problems! Inform the user: */
  printf( "Could not allocate the FileInfoBlock!\n" );
  /* Unlock the object: */
  UnLock( my_lock );
  /* Exit with an error code: */
  exit( 23 );
};
/\star 3. Get some information about the object we have locked: \star/
ok = Examine( my_lock, my_fib );
/* Any problems? */
if( !ok )
  /* Problems! Inform the user: */
 printf( "Could not examine the object!\n" );
  /\star Deallocate the FileInfoBlock structure wich we have \star/
  /\star created with help of the AllocDosObject() function: \star/
  FreeDosObject( DOS_FIB, my_fib );
```

```
/* Unlock the object: */
  UnLock( my_lock );
  /* Exit with an error code: */
 exit( 24 );
}
/* 4. You may now examine the FileInfoBlock structure! */
printf( "Name:
                  %s\n", my_fib->fib_FileName );
if( my_fib->fib_DirEntryType < 0 )</pre>
                 File\n");
 printf( "Type:
  printf( "Type:
                     Directory or Volume\n");
                   %d\n", my_fib->fib_Size );
printf( "Size:
printf( "Blocks:
                   %d\n", my_fib->fib_NumBlocks );
printf( "Comment:
                   %s\n",
 my_fib->fib_Comment[0] ? my_fib->fib_Comment : "No comment" );
printf( "Protection bits:\n" );
printf( " Delete: %s\n",
  my_fib->fib_Protection & FIBF_DELETE ? "On" : "Off" );
printf( " Execute: %s\n",
 my_fib->fib_Protection & FIBF_EXECUTE ? "On" : "Off" );
printf( " Write:
                   %s\n",
  my_fib->fib_Protection & FIBF_WRITE ? "On" : "Off" );
printf( " Read:
                  %s\n",
 my_fib->fib_Protection & FIBF_READ ? "On" : "Off" );
printf( " Archive: %s\n",
 my_fib->fib_Protection & FIBF_ARCHIVE ? "On" : "Off" );
printf( " Pure:
                  %s\n",
  my_fib->fib_Protection & FIBF_PURE ? "On" : "Off" );
printf( " Script: %s\n",
 my_fib->fib_Protection & FIBF_SCRIPT ? "On" : "Off" );
printf( "Last changed: (Internal datestamp value)\n" );
printf( " Days: %d\n", my_fib->fib_Date.ds_Days );
printf( " Minutes: %d\n", my_fib->fib_Date.ds_Minute );
printf( " Ticks:
                   %d\n", my_fib->fib_Date.ds_Tick );
/* 5. Deallocate the FileInfoBlock structure wich we have */
/* created with help of the AllocDosObject() function: */
/* (Remember that we must use this function if you
/\star allocated the object with help of the AllocDosObject() \star/
/* function. The advantage with AllocDosObject() is that */
```

```
/\star the size of the object can vary betweeen different
/\star releases of the dos library and your program will
                                                                \star/
/\star still be able to run. Since the size may vary you
                                                                \star /
/\star must of course use some function which can deallocate
                                                               */
/\star all memory that was allocated, and not just use a
                                                               */
/\star fixed size as we have to do when we use AllocMem() and \star/
/* FreeMem().)
                                                                \star/
FreeDosObject( DOS_FIB, my_fib );
/* 6. Unlock the file: */
UnLock( my_lock );
/* The End! */
exit( 0 );
```