

Sourcecode: Example1.c

COLLABORATORS

	<i>TITLE :</i> Sourcecode: Example1.c		
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WRITTEN BY		February 12, 2023	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

Sourcecode: Example1.c

1.1 Example1.c

```
/******  
/*  
/* Amiga C Encyclopedia (ACE)           Amiga C Club (ACC) */  
/* -----  
/*  
/* Manual:  AmigaDOS                    Amiga C Club      */  
/* Chapter: Files                      Tulevagen 22     */  
/* File:    Example1.c                 181 41  LIDINGO   */  
/* Author:  Anders Bjerin              SWEDEN          */  
/* Date:    93-03-11                   */  
/* Version: 1.1                         */  
/*  
/* Copyright 1993, Anders Bjerin - Amiga C Club (ACC) */  
/*  
/* Registered members may use this program freely in their */  
/* own commercial/noncommercial programs/articles.      */  
/*  
/******  
  
/* This program collects ten integer values from the user, and */  
/* saves them in a file called "HighScore.dat" on the RAM disk. */  
  
/* Include the dos library definitions: */  
#include <dos/dos.h>  
  
/* Now we include the necessary function prototype files:      */  
#include <clib/dos_protos.h> /* General dos functions... */  
#include <stdio.h>          /* Std functions [printf()...] */  
#include <stdlib.h>         /* Std functions [exit()...] */  
  
/* Set name and version number: */  
UBYTE *version = "$VER: AmigaDOS/InputOutput/Example1 1.1";
```

```
/* Declared our own function(s): */

/* Our main function: */
int main( int argc, char *argv[] );

/* Main function: */

int main( int argc, char *argv[] )
{
    /* A "BCPL" pointer to our file: */
    BPTR my_file;

    /* The numbers: (10 integers will be saved) */
    int my_highscore[ 10 ];

    /* Store here the number of bytes actually written: */
    long bytes_written;

    /* A simple loop variable: */
    int loop;

    /* Let the user enter ten integer values: */
    printf( "Please enter ten integer values:\n" );
    for( loop=0; loop < 10; loop++ )
    {
        printf( "Value [%d]: ", loop );
        scanf( "%d", &my_highscore[ loop ] );
    }

    /* Try to open file "RAM:HighScore.dat" as a new file: (If */
    /* the file does not exist, it will be created. If it, on */
    /* the the other hand, exist, it will be overwritten.) */
    my_file = Open( "RAM:HighScore.dat", MODE_NEWFILE );

    /* Have we opened the file successfully? */
    if( !my_file )
    {
        /* Inform the user: */
        printf( "Error! Could not open the file!\n" );

        /* Exit with an error code: */
        exit( 20 );
    }

    /* The file has now been opened: */
    printf( "File open!\n" );

    /* We have now opened a file and the file cursor is */
```

```
/* pointing to the first byte (character) in our new */
/* file. We can now start to write: */
bytes_written = Write( my_file, my_highscore, sizeof( my_highscore ) );

/* Did we write all data? */
if( bytes_written != sizeof( my_highscore ) )
{
    /* No! The numbers actually written was less */
    /* than we wanted to write! */
    printf( "Error! Could not save all values!\n" );
}
else
{
    /* Yes, all numbers have been written to the file! */
    printf( "All values were saved successfully!\n" );
}

/* Since we store 10 integer values the file should be 40 bytes */
/* long. 1 integer (32 bits) = 4 bytes, 10 integers (320 bits) = */
/* 40 bytes. */

/* Close the file. With V36 or higher the Close() function */
/* will return a boolean value, TRUE if the file was */
/* successfully closed, FALSE if the file could not be */
/* closed. If the file could not be closed there is sadly */
/* very little we can do about it. We should never try to */
/* close a file after it has been closed, successfully or */
/* not! Even if the actual file could not be closed most of */
/* the memory used by the filehandler will still have been */
/* deallocated. */
/*
/* In most cases you can simply ignore what the Close() */
/* function returns since you can not do much about it. */
/* However, if you have saved important data in the file */
/* you might want to open a new file and save it all again */
/* just to be on the safe side. Before you may do this you */
/* should of course ask for the user's permission. */
if( Close( my_file ) )
    printf( "File closed!\n" );
else
    printf( "Error! File could not be closed!\n" );

/* Remember that even if the file could not be */
/* closed we must NOT try to close it again! */

/* The End! */
exit( 0 );
}
```