

```

/*****
/*
/*          C D U T I L . H
/*-----**/
/* Task          : Header file for CDUTIL.C
/*-----**/
/* Author         : Michael Tischer / Bruno Jennrich
/* Developed on    : 04/08/94
/* Last update     : 04/18/94
/*-----**/
/* COMPILER        : Borland C++ 3.1, Microsoft Visual C++ 1.5
/*-----**/
#ifndef __INC_CDUTIL_H
#define __INC_CDUTIL_H

#include "types.h"

/* The structure variables marked '=' in the documentation
/* must be initialized by the programmer. The
/* other fields/elements are returned by the device driver.

/*- Addressing Modes -----*/
#define HSG 0
#define REDBOOK 1

/*- MSCDEX - Function codes ( passed in AL ) -----*/
#define MSCDEX_GET_NO_OF_DRIVE_LETTERS    0x00
#define MSCDEX_GET_DRIVE_DEVICE_LIST      0x01
typedef struct tagDevElement
{
    BYTE          bSubUnit;                /* Number of SubUnit */
    LPDeviceHeader lpDeviceHeader;         /* Address of device headers */
} DevElement;
typedef DevElement _FP *LPDevElement;

#define MSCDEX_GET_COPYRIGHT_FILENAME      0x02
#define MSCDEX_GET_ABSTRACT_FILENAME      0x03
#define MSCDEX_GET_BIB_DOC_FILENAME      0x04
#define MSCDEX_READ_VTOC                  0x05
#define MSCDEX_DEBUG_ON                   0x06
#define MSCDEX_DEBUG_OFF                  0x07
#define MSCDEX_ABSOLUTE_DISK_READ         0x08
#define MSCDEX_ABSOLUTE_DISK_WRITE        0x09
#define MSCDEX_RESERVED                   0x0A

/*- MSCDEX - Functions V2.00 and above -----*/
#define MSCDEX200_CD_ROM_DRIVE_CHECK      0x0B
#define MSCDEX200_GET_VERSION             0x0C
#define MSCDEX200_GET_DRIVE_LETTERS       0x0D
#define MSCDEX200_GETSET_VD_PREFERENCE    0x0E
#define MSCDEX200_GET_DIRECTORY_ENTRY     0x0F
#define DIRECT_COPY 0
#define STRUCT_COPY 1

/*- MSCDEX - Functions V2.10 and above -----*/
#define MSCDEX210_SEND_DEVICE_REQUEST     0x10

/*- Number of Multiplex-Interrupt -----*/
#define DOS_MULTIPLEX_INT                  0x2F

/*- ID code of MSCDEX interrupt calls -----*/
#define MSCDEX_MULTIPLEX_CODE (0x1500)
#define MSCDEX_MUXCODE( code ) ( MSCDEX_MULTIPLEX_CODE | ( code ) )

/*- Prototypes -----*/
LONG Time2Frame( INT iMin, INT iSec, INT iFrame );
LONG Time2HSG( INT iMin, INT iSec, INT iFrame );
LONG Time2REDBOOK( INT iMin, INT iSec, INT iFrame );
VOID Frame2Time( LONG lFrame, LPINT lpiMin,
                LPINT lpiSec,
                LPINT lpiFrame );
VOID REDBOOK2Time( LONG lREDBOOK, LPINT lpiMin,
                  LPINT lpiSec,
                  LPINT lpiFrame );
VOID HSG2Time( LONG lHSG, LPINT lpiMin,
              LPINT lpiSec,
              LPINT lpiFrame );

```

```

LONG REDBOOK2HSG( LONG lREDBOOK );
LONG HSG2REDBOOK( LONG lHSG );
INT MSCDEX_GetNumberOfDriveLetters( LPINT lpiNumber,
                                     LPINT lpiStartLetter );

INT MSCDEX_Installed( VOID );
INT MSCDEX_GetCDRomDriveDeviceList( LPDevElement lpDevElement );
INT MSCDEX_GetCopyrightFilename( INT      iCD_Drive_Letter,
                                  LPCHAR    lpName );
INT MSCDEX_GetAbstractFilename( INT      iCD_Drive_Letter,
                                 LPCHAR    lpName );
INT MSCDEX_GetBibDocFilename( INT      iCD_Drive_Letter,
                              LPCHAR    lpName );
INT MSCDEX_ReadVTOC( INT      iCD_Drive_Letter,
                    LPBYTE    lpSector,
                    INT      iNumSec );
INT MSCDEX_DebugOn( VOID );
INT MSCDEX_DebugOff( VOID );
INT MSCDEX_AbsoluteRead( INT      iCD_Drive_Letter,
                        LPBYTE    lpSector,
                        INT      iSecCnt,
                        LONG      lSecStart );
INT MSCDEX_AbsoluteWrite( INT      iCD_Drive_Letter,
                        LPBYTE    lpSector,
                        INT      iSecCnt,
                        LONG      lSecStart );
INT MSCDEX200_CDRomDriveCheck( INT iCD_Drive_Letter );
INT MSCDEX200_GetVersion( VOID );
INT MSCDEX200_GetCDRomDriveLetters( LPCHAR lpLetters );
INT MSCDEX200_GetVDPPreference( INT      iCD_Drive_Letter,
                                LPINT     lpiPreference );
INT MSCDEX200_SetVDPPreference( INT iCD_Drive_Letter,
                                INT iPreference );
INT MSCDEX200_GetDirectoryEntry( INT      iCD_Drive_Letter,
                                INT      iCopyFlag,
                                LPCHAR    lpPathName,
                                LPVOID    lpData,
                                LPINT     lpiHSG );
INT MSCDEX_ReadWriteReq( INT      iCD_Drive_Letter,
                        INT      iCommand,
                        LPVOID    lpControlBlock,
                        INT      iControlBlockSize );
INT MSCDEX210_SendDeviceRequest( INT      iCD_Drive_Letter,
                                LPRequestHeader lpReqHdr );
INT MSCDEX_SendDeviceRequest( INT      iCD_Drive_Letter,
                              LPRequestHeader lpReqHdr );

#endif /*- #ifndef _INC_CDUTIL_H -----*/

```