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/*****
/*                      S E R T R A N S . H                      */
/**-----**/
/* Task          : Include file for SERTRANS.C                      */
/**-----**/
/* Author           : Michael Tischer / Bruno Jennrich              */
/* Developed on    : 04/08/1994                                      */
/* Last update    : 04/07/1995                                      */
/**-----**/
/* COMPILER        : Borland C++ 3.1, Microsoft Visual C++ 1.5    */
/*****
#ifndef _INC_SERTRANS_H
#define _INC_SERTRANS_H

#include "types.h"

#define CCITT_POLYNOM 0x1021 /* = x^16 + x^12 + x^5 + x^0 == 0x11021! */

/* Certain ASCII codes */
#define ASCII_SOH          0x01 /* Start of header */
#define ASCII_STX          0x02 /* Start of text / data */
#define ASCII_EOT          0x03 /* End of transmission */
#define ASCII_ENQ          0x05 /* Inquiry */
#define ASCII_ACK          0x06 /* Positive acknowledge */
#define ASCII_NAK          0x15 /* Negative acknowledge */
#define ASCII_SYN          0x16 /* Synchronous idle */

#define PACKET_DATASIZE 512

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#define PACKET_FILEOPEN      0                /* Random packet types */
#define PACKET_FILECLOSE    1
#define PACKET_FILEDATA     2

typedef struct tagPacket
{
    BYTE bType;                /* Packet type (user-defined) */
    UINT uDataSize;           /* Valid data within packet */
    UINT uNr;                  /* Packet sequence number */
    BYTE bData[ PACKET_DATASIZE ]; /* Data */
} PACKET;
typedef PACKET _far *LPPACKET;
typedef PACKET *PPACKET;

/* Error messages */
#define TRANS_SUCCESS        0
#define TRANS_TIMEOUT       -1
#define TRANS_TRANSERROR    -2
#define TRANS_PROTOCOL      -3
#define TRANS_CRC           -4
#define TRANS_NOFILE        -5

/* Action codes for trans_SendPacket() */
#define SEND_RECEIVER        0
#define SEND_SENDING         1
#define SEND_GETNAKLO        2
#define SEND_GETNAKHI        3
#define SEND_PUTCRCLO        4
#define SEND_PUTCRCHI        5
#define SEND_GETREPLY        6

/* Action codes for trans_ReceivePacket() */

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#define RECEIVE_RECEIVE      0
#define RECEIVE_GETCRCLO    1
#define RECEIVE_GETCRCHI    2
#define RECEIVE_SIGNAL      3
#define RECEIVE_PUTACK      4
#define RECEIVE_PUTNAK      5
#define RECEIVE_PUTNAKLO    6
#define RECEIVE_PUTNAKHI    7

#define PACKET_SUCCESS      0
#define PACKET_SEQUENCE    -10
#define PACKET_UNKNOWN     -11
#define PACKET_TIMEOUT     -12

#endif
```

