```
BTICard PowerPC Linux Driver Version 1.3.4 (09/25/2006)
  Copyright (c) 2003-2006
 Ballard Technology, Inc.
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  NAME:
           BTICard.H -- PowerPC Linux
                        BTICard Driver Include Header File.
**/
  This file defines the procedures provided by the PowerPC Linux
  Driver Library for Ballard Technology interface cards.
  Applications using the BTICard Driver Library must
 incorporate this include file using the preprocessor directive
* #include. If this file is in the current working directory,
  the form would be:
  #include "BTICard.H"
**/
/**
  Conditional block to prevent multiple defines.
**/
#ifndef __BTICard_H
#define __BTICard_H
/**
   Typedefs used by the BTICard Driver.
**/
#ifndef BTICardAPI
#define BTICardAPI
#endif
#ifndef VOID
#define VOID void
#endif
#ifndef LPVOID
#define LPVOID void *
#endif
#ifndef INT
#define INT int
#endif
#ifndef LPINT
#define LPINT int *
#endif
#ifndef BYTE
#define BYTE unsigned char
```

```
#ifndef LPBYTE
#define LPBYTE unsigned char *
#endif
#ifndef USHORT
#define USHORT unsigned short
#ifndef LPUSHORT
#define LPUSHORT unsigned short *
#ifndef ULONG
#define ULONG unsigned long
#ifndef LPULONG
#define LPULONG unsigned long *
#ifndef MSGADDR
#define MSGADDR unsigned long
#ifndef BASEADDR
#define BASEADDR unsigned long
#ifndef LISTADDR
#define LISTADDR unsigned long
#ifndef LPMSGADDR
#define LPMSGADDR unsigned long *
#ifndef LPCSTR
#define LPCSTR const char *
#endif
#ifndef LPSTR
#define LPSTR char *
#endif
#ifndef CHAR
#define CHAR char
#endif
#ifndef BOOL
#define BOOL int
#endif
#ifndef HCARD
#define HCARD int
#endif
#ifndef LPHCARD
#define LPHCARD int *
#endif
#ifndef HCORE
#define HCORE int
#endif
#ifndef LPHCORE
#define LPHCORE int *
#endif
#ifndef HRPC
```

//Valid in all versions

//Valid in all versions //Valid in all versions

//Valid in all versions

//Valid in all versions

//Valid in all versions //Valid in all versions

//Valid in all versions

//Valid in all versions

//Valid in all versions

//Variable length (don't exceed data[datacount-1])

//Valid if version of base record (SEQRECORD1553) >= 1

//Valid if version of base record (SEQRECORD1553) >= 1

//Valid if version of base record (SEQRECORD1553) >= 1

```
11/12/2023, 15:30
 #define HRPC int
 #endif
 #ifndef LPHRPC
 #define LPHRPC int *
 #endif
 #ifndef ERRVAL
 #define ERRVAL int
 #endif
 #ifndef SCHNDX
 #define SCHNDX int
 #endif
 /**
    Structs used by the BTICard Driver.
 **/
 #ifndef SEQRECORD1553
 typedef struct
 {
         USHORT type;
         USHORT count;
         ULONG
         USHORT activity;
         USHORT error;
         USHORT cwd1;
         USHORT cwd2;
         USHORT swd1;
         USHORT swd2;
         USHORT datacount;
USHORT data[40];
```

} SEQRECORD1553;

typedef struct

#ifndef LPSEQRECORD1553

#ifndef SEQRECORDMORE1553

ULONG

} SEQRECORDMORE1553;

#ifndef SEQRECORD429 typedef struct

ULONG

#ifndef LPSEQRECORDMORE1553

USHORT type;

USHORT count;

USHORT activity;

USHORT decgap;

#endif

#endif

#endif

#endif

{

{

```
//Valid in all versions
       ULONG
                data;
                                   //Valid if version >= 1
       ULONG
                timestamph;
} SEQRECORD429;
#endif
#ifndef LPSEQRECORD429
```

timestamp;

typedef SEQRECORD1553 * LPSEQRECORD1553;

USHORT resptime1;

USHORT resptime2;

timestamph;

typedef SEQRECORDMORE1553 * LPSEQRECORDMORE1553;

timestamp;

//Valid in all versions

//Valid in all versions //Valid in all versions

//Valid in all versions

//Valid if version >= 1

```
typedef SEQRECORD429 * LPSEQRECORD429;
#endif
#ifndef SEQRECORD717
typedef struct
{
                                  //Valid in all versions
       USHORT type;
                                  //Valid in all versions
       USHORT count;
                                 //Valid in all versions
               timestamp;
       ULONG
                                 //Valid in all versions
       USHORT activity;
                                 //Valid in all versions
       USHORT wordnum;
                                 //Valid in all versions
       USHORT subframe;
                                 //Valid in all versions
       USHORT superframe;
       USHORT data;
                                 //Valid in all versions
                                  //Valid if version >= 1
       USHORT rsvd9;
       ULONG
               timestamph;
                                  //Valid if version >= 1
} SEQRECORD717;
#endif
#ifndef LPSEQRECORD717
typedef SEQRECORD717 * LPSEQRECORD717;
#endif
#ifndef SEORECORD708
typedef struct
{
                                  //Valid in all versions
       USHORT type;
                                  //Valid in all versions
       USHORT count;
                                 //Valid in all versions
               timestamp;
       ULONG
                                 //Valid in all versions
       USHORT activity;
                                 //Valid in all versions
       USHORT datacount;
                                 //Valid in all versions
       USHORT data[100];
                                 //Valid if version >= 1
       USHORT extra[16];
       USHORT bitcount;
                                 //Valid if version >= 1
       USHORT rsvd123;
                                 //Valid if version >= 1
       ULONG
               timestamph;
                                  //Valid if version >= 1
} SEQRECORD708;
#endif
#ifndef LPSEQRECORD708
typedef SEQRECORD708 * LPSEQRECORD708;
#endif
#ifndef SEQRECORDCSDB
typedef struct
{
       USHORT type;
                                 //Valid in all versions
       USHORT count;
                                  //Valid in all versions
                                 //Valid in all versions
       ULONG
              timestamp;
                                 //Valid in all versions
       ULONG
              timestamph;
                                 //Valid in all versions
       USHORT activity;
                                 //Valid in all versions
       USHORT datacount;
       USHORT data[32];
                                  //Valid in all versions
} SEQRECORDCSDB;
#endif
#ifndef LPSEORECORDCSDB
typedef SEQRECORDCSDB * LPSEQRECORDCSDB;
#endif
#ifndef SEQRECORDDIO
typedef struct
{
                                 //Valid in all versions
       USHORT type;
       USHORT count;
                                  //Valid in all versions
       USHORT bank;
                                  //Valid in all versions
                                  //Valid in all versions
       USHORT state;
                                  //Valid in all versions
       ULONG
               timestamp;
                                  //Valid in all versions
       ULONG
               timestamph;
```

```
} SEQRECORDDIO;
#endif
#ifndef LPSEQRECORDDIO
typedef SEQRECORDDIO * LPSEQRECORDDIO;
#endif
#ifndef SEQFINDINFO
typedef struct
{
        LPUSHORT pRecFirst;
        LPUSHORT pRecNext;
        LPUSHORT pRecLast;
} SEQFINDINFO;
#endif
#ifndef LPSEQFINDINFO
typedef SEQFINDINFO * LPSEQFINDINFO;
#ifndef BTIIRIGTIME
typedef struct
        USHORT days;
        USHORT hours;
        USHORT min;
        USHORT sec;
        USHORT msec;
        USHORT usec;
} BTIIRIGTIME;
#endif
#ifndef LPBTIIRIGTIME
typedef BTIIRIGTIME * LPBTIIRIGTIME;
#endif
#ifndef BTIIDENTIFY
typedef struct
{
        CHAR mac_address[20];
        CHAR serial_number[8];
        CHAR card_string[32];
        CHAR type_string[32];
        CHAR user_string[64];
} BTIIDENTIFY;
#endif
#ifndef LPBTIIDENTIFY
typedef BTIIDENTIFY * LPBTIIDENTIFY;
#endif
/**
   "C" block if compiling a C++ file.
**/
#ifdef __cplusplus
extern "C" {
#endif
/**
  BTICard Driver functions.
**/
BTICardAPI ULONG BTICard_AddrDSP(ULONG addr, HCARD handleval);
BTICardAPI ULONG BTICard_AddrHost(ULONG addr, HCARD handleval);
```

```
BTICardAPI ERRVAL BTICard AsciiToMant(LPCSTR str,LPULONG mant,LPINT exp);
BTICardAPI ULONG BTICard_BCDToBin(ULONG bcdval,INT msb,INT lsb);
BTICardAPI ULONG BTICard_BinToBCD(ULONG oldbcdval,ULONG binval,INT msb,INT lsb);
BTICardAPI ERRVAL BTICard_CardClose(HCARD handleval);
BTICardAPI ERRVAL BTICard_CardCloseAll(VOID);
BTICardAPI ULONG BTICard_CardGetInfo(USHORT infotype,INT channum,HCARD handleval);
BTICardAPI ERRVAL BTICard_CardGetInfoEx(LPUSHORT bufmodel, USHORT bufmodelcount, LPUSHORT
buffeature,USHORT buffeaturecount,HCARD handleval);
BTICardAPI BOOL BTICard_CardIsRunning(HCARD handleval);
BTICardAPI ERRVAL BTICard_CardNop(HCARD handleval);
BTICardAPI ERRVAL BTICard_CardOpen(LPHCARD lphCard,INT cardnum);
BTICardAPI LPCSTR BTICard_CardProductStr(HCARD handleval);
BTICardAPI VOID BTICard_CardReset(HCARD handleval);
BTICardAPI VOID BTICard_CardResetEx(HCARD handleval);
BTICardAPI ERRVAL BTICard_CardResume(HCARD handleval);
BTICardAPI ERRVAL BTICard_CardStart(HCARD handleval);
BTICardAPI BOOL BTICard_CardStop(HCARD handleval);
BTICardAPI VOID BTICard_CardSyncEnable(BOOL enableflag, USHORT syncmask, USHORT pinpolarity, HCARD
handleval);
BTICardAPI USHORT BTICard CardSyncValid(HCARD handleval);
BTICardAPI ERRVAL BTICard_CardTest(USHORT level, HCARD handleval);
BTICardAPI ERRVAL BTICard_CardTest0(HCARD handleval);
BTICardAPI ERRVAL BTICard_CardTest1(HCARD handleval);
BTICardAPI ERRVAL BTICard_CardTest2(HCARD handleval);
BTICardAPI ERRVAL BTICard_CardTest3(HCARD handleval);
BTICardAPI VOID BTICard_CardTrigger(HCARD handleval);
BTICardAPI VOID BTICard_CardTriggerEnable(BOOL enableflag,HCARD handleval);
BTICardAPI VOID BTICard_CardTriggerEnableEx(BOOL enableflag,USHORT trigmask,USHORT
pinpolarity, HCARD handleval);
BTICardAPI VOID BTICard_CardTriggerEx(USHORT trigmask, HCARD handleval);
BTICardAPI USHORT BTICard_CardTriggerValid(HCARD handleval);
BTICardAPI LPCSTR BTICard_CardTypeStr(HCARD handleval);
BTICardAPI VOID BTICard_ChDARClr(USHORT maskval, USHORT addrval, INT channum, HCARD handleval);
BTICardAPI BOOL BTICard_ChDARGet(USHORT maskval,USHORT addrval,INT channum,HCARD handleval);
BTICardAPI ULONG BTICard_ChDARRdL(USHORT addrval,INT channum,HCARD handleval);
BTICardAPI VOID BTICard_ChDARRdsW(LPUSHORT valueptr,USHORT addrval,INT countval,INT channum,HCARD
handleval);
BTICardAPI USHORT BTICard_ChDARRdW(USHORT addrval,INT channum,HCARD handleval);
BTICardAPI VOID BTICard_ChDARSet(USHORT maskval, USHORT addrval, INT channum, HCARD handleval);
BTICardAPI VOID BTICard_ChDARWrL(ULONG value,USHORT addrval,INT channum,HCARD handleval);
BTICardAPI VOID BTICard_ChDARWrsW(LPUSHORT valueptr,USHORT addrval,INT countval,INT channum,HCARD
handleval);
BTICardAPI VOID BTICard_ChDARWrW(USHORT value, USHORT addrval, INT channum, HCARD handleval);
BTICardAPI ERRVAL BTICard_CISRd(LPUSHORT buf,USHORT bufcount,INT cistype,HCARD handleval);
BTICardAPI ERRVAL BTICard_CISWr(LPUSHORT buf,USHORT bufcount,INT cistype,HCARD handleval);
BTICardAPI USHORT BTICard_CommBufRd(USHORT offset, HCARD handleval);
BTICardAPI VOID BTICard_CommBufWr(USHORT value, USHORT offset, HCARD handleval);
BTICardAPI ERRVAL BTICard_CommCall(ULONG addrval, HCARD handleval);
BTICardAPI ERRVAL BTICard_CommChannelReconfig(ULONG chmask, HCARD handleval);
BTICardAPI ERRVAL BTICard_CommCheck(HCARD handleval);
BTICardAPI ERRVAL BTICard_CommDisable(USHORT command, HCARD handleval);
BTICardAPI ERRVAL BTICard_CommDisableEx(USHORT command, HCARD handleval);
BTICardAPI ERRVAL BTICard_CommEnable(HCARD handleval);
BTICardAPI ERRVAL BTICard_CommExternSRQ(ULONG chmask, HCARD handleval);
BTICardAPI ERRVAL BTICard CommFillW(USHORT value, ULONG addrval, USHORT count, HCARD handleval);
BTICardAPI BOOL BTICard CommProtocolFunc(USHORT opcode, USHORT argcount, LPUSHORT argbuf, HCARD
BTICardAPI ULONG BTICard CommRdL(ULONG addrval, HCARD handleval);
BTICardAPI ERRVAL BTICard CommRdsW(LPUSHORT valueptr, ULONG addrval, USHORT count, HCARD handleval);
BTICardAPI USHORT BTICard_CommRdW(ULONG addrval, HCARD handleval);
BTICardAPI ERRVAL BTICard CommRun(LPUSHORT dataptr, USHORT datacount, LPUSHORT codeptr, USHORT
codecount, HCARD handleval);
BTICardAPI VOID BTICard CommWrL(ULONG value, ULONG addrval, HCARD handleval);
BTICardAPI ERRVAL BTICard_CommWrsW(LPUSHORT valueptr,ULONG addrval,USHORT count,HCARD handleval);
BTICardAPI VOID BTICard_CommWrW(USHORT value,ULONG addrval,HCARD handleval);
BTICardAPI ERRVAL BTICard_CoProcGetInfo(LPULONG valueptr,USHORT infotype,HCARD handleval);
BTICardAPI ERRVAL BTICard_CoreOpen(LPHCORE lphCore,INT corenum,HCARD hCard);
BTICardAPI VOID BTICard_DARClr(USHORT maskval,USHORT addrval,HCARD handleval);
BTICardAPI BOOL BTICard_DARGet(USHORT maskval,USHORT addrval,HCARD handleval);
```

```
BTICardAPI ULONG BTICard DARRdL(USHORT addrval, HCARD handleval);
BTICardAPI USHORT BTICard DARRdW(USHORT addrval, HCARD handleval);
BTICardAPI VOID BTICard DARSet(USHORT maskval, USHORT addrval, HCARD handleval);
BTICardAPI VOID BTICard_DARWrL(ULONG value, USHORT addrval, HCARD handleval);
BTICardAPI VOID BTICard_DARWrW(USHORT value,USHORT addrval,HCARD handleval);
BTICardAPI ULONG BTICard Div(ULONG diva, ULONG divb);
BTICardAPI ERRVAL BTICard_DspBioClear(HCARD handleval);
BTICardAPI BOOL BTICard_DspBioRd(HCARD handleval);
BTICardAPI ERRVAL BTICard_DspBioSet(HCARD handleval);
BTICardAPI ERRVAL BTICard_DspIntfClear(USHORT intmask, HCARD handleval);
BTICardAPI BOOL BTICard_DspIntfRd(USHORT intmask, HCARD handleval);
BTICardAPI ERRVAL BTICard_DspIntmClear(HCARD handleval);
BTICardAPI ERRVAL BTICard_DspIntmSet(HCARD handleval);
BTICardAPI ERRVAL BTICard_DspXfClear(HCARD handleval);
BTICardAPI BOOL BTICard_DspXfRd(HCARD handleval);
BTICardAPI ERRVAL BTICard_DspXfSet(HCARD handleval);
BTICardAPI LPCSTR BTICard_ErrDesc(ERRVAL errval, HCARD handleval);
BTICardAPI LPCSTR BTICard_ErrDescStr(ERRVAL errval, HCARD handleval);
BTICardAPI LPCSTR BTICard_ErrName(ERRVAL errval, HCARD handleval);
BTICardAPI ERRVAL BTICard_EventLogClear(HCARD handleval);
BTICardAPI ERRVAL BTICard_EventLogConfig(USHORT configval,USHORT count,HCARD handleval);
BTICardAPI ULONG BTICard_EventLogRd(LPUSHORT typeval,LPULONG infoval,LPINT channel,HCARD
handleval):
BTICardAPI INT BTICard EventLogStatus(HCARD handleval);
BTICardAPI VOID BTICard ExpandMant(LPULONG mant, LPINT exp);
BTICardAPI BOOL BTICard_ExtDinRd(HCARD handleval);
BTICardAPI VOID BTICard_ExtDinWr(BOOL dinval, HCARD handleval);
BTICardAPI VOID BTICard_ExtDIODirSet(INT dionum, BOOL dirval, HCARD handleval);
BTICardAPI BOOL BTICard_ExtDIORd(INT dionum, HCARD handleval);
BTICardAPI VOID BTICard_ExtDIOWr(INT dionum, BOOL dioval, HCARD handleval);
BTICardAPI BOOL BTICard_ExtLEDRd(HCARD handleval);
BTICardAPI VOID BTICard_ExtLEDWr(BOOL ledval, HCARD handleval);
BTICardAPI VOID BTICard_ExtStatusLEDRd(LPINT ledon,LPINT ledcolor,HCARD handleval);
BTICardAPI VOID BTICard_ExtStatusLEDWr(BOOL ledon,BOOL ledcolor,HCARD handleval);
BTICardAPI USHORT BTICard_GetHigh(ULONG val);
BTICardAPI USHORT BTICard_GetLow(ULONG val);
BTICardAPI USHORT BTICard_GlobalRdW(USHORT addrval, HCARD handleval);
BTICardAPI VOID BTICard_GlobalWrW(USHORT value, USHORT addrval, HCARD handleval);
BTICardAPI ERRVAL BTICard_HandleIgnoreSet(BOOL flag, HCARD handleval);
BTICardAPI ERRVAL BTICard_HandleInfo(LPSTR cardstr,LPINT cardnum,LPULONG sizval,LPVOID
*vxdptr,HCARD handleval);
BTICardAPI ERRVAL BTICard_HandleInfoEx(LPULONG valueptr,ULONG type,HCARD handleval);
BTICardAPI BOOL BTICard_HandleIsCard(HCARD handleval);
BTICardAPI BOOL BTICard_HandleIsCore(HCORE handleval);
BTICardAPI ERRVAL BTICard_HandleMakeCard(LPHCARD lphCard,LPINT lpcorenum,HCORE hCore);
BTICardAPI ERRVAL BTICard_HandleMakeCore(LPHCORE lphCore,INT corenum,HCARD hCard);
BTICardAPI ERRVAL BTICard_HandleMakeRPC(LPHCARD hCard_Remote,LPHRPC lphRPC,HCARD handleval);
BTICardAPI BOOL BTICard_HandleOkay(HCARD handleval);
BTICardAPI ULONG BTICard_HeapAlloc(INT section, ULONG wordcount, HCARD handleval);
BTICardAPI ULONG BTICard_HeapAllocAll(INT section, LPULONG wordcount, HCARD handleval);
BTICardAPI ULONG BTICard_HeapAllocEx(USHORT configval,INT section,ULONG wordcount,HCARD
handleval);
BTICardAPI ULONG BTICard HeapWipe(INT section, HCARD handleval);
BTICardAPI VOID BTICard HookProtocolFunc(INT index, ERRVAL (* ptr)(INT msgval, LPVOID lpParam, HCARD
BTICardAPI VOID BTICard HPIFill(USHORT value, USHORT addrval, INT countval, HCARD handleval);
BTICardAPI ULONG BTICard HPIRdL(USHORT addrval, HCARD handleval);
BTICardAPI VOID BTICard HPIRdsL(LPULONG valueptr, USHORT addrval, INT countval, HCARD handleval);
BTICardAPI VOID BTICard_HPIRdsW(LPUSHORT valueptr, USHORT addrval, INT countval, HCARD handleval);
BTICardAPI USHORT BTICard HPIRdW(USHORT addrval, HCARD handleval);
BTICardAPI VOID BTICard HPIWrL(ULONG value, USHORT addrval, HCARD handleval);
BTICardAPI VOID BTICard_HPIWrsL(LPULONG valueptr, USHORT addrval, INT countval, HCARD handleval);
BTICardAPI VOID BTICard HPIWrsW(LPUSHORT valueptr, USHORT addrval, INT countval, HCARD handleval);
BTICardAPI VOID BTICard HPIWrW(USHORT value, USHORT addrval, HCARD handleval);
BTICardAPI ERRVAL BTICard HWMonFault(HCARD handleval);
BTICardAPI ERRVAL BTICard_HWMonStatus(LPINT status, HCARD handleval);
BTICardAPI ERRVAL BTICard_Identify(LPBTIIDENTIFY info, HCARD handleval);
BTICardAPI USHORT BTICard_IDRegRd(INT gate_array_num, HCARD handleval);
BTICardAPI VOID BTICard_IDRegWr(USHORT value,INT gate_array_num,HCARD handleval);
```

```
BTICardAPI VOID BTICard IntClear(HCARD handleval);
BTICardAPI ERRVAL BTICard_IntDisable(HCARD handleval);
BTICardAPI ERRVAL BTICard_IntEnable(HCARD handleval);
BTICardAPI ERRVAL BTICard_IntEnableCond(HCARD handleval);
BTICardAPI LPVOID BTICard_IntGet(HCARD handleval);
BTICardAPI ERRVAL BTICard_IntInstall(LPVOID hEvent, HCARD handleval);
BTICardAPI VOID BTICard_IntReset(HCARD handleval);
BTICardAPI ERRVAL BTICard_IntUninstall(HCARD handleval);
BTICardAPI ULONG BTICard_IORdL(INT addrval, HCARD handleval);
BTICardAPI USHORT BTICard_IORdW(INT addrval, HCARD handleval);
BTICardAPI USHORT BTICard_IOWINRdW(INT addrval, HCARD handleval);
BTICardAPI VOID BTICard_IOWINWrW(USHORT value,INT addrval,HCARD handleval);
BTICardAPI VOID BTICard_IOWrL(ULONG value,INT addrval,HCARD handleval);
BTICardAPI VOID BTICard_IOWrW(USHORT value,INT addrval,HCARD handleval);
BTICardAPI ERRVAL BTICard_IRIGConfig(ULONG configval, HCARD handleval);
BTICardAPI ULONG BTICard_IRIGFieldGetDays(ULONG irigvalh,ULONG irigvall);
BTICardAPI ULONG BTICard_IRIGFieldGetHours(ULONG irigvalh,ULONG irigvall);
BTICardAPI ULONG BTICard_IRIGFieldGetMicrosec(ULONG irigvalh,ULONG irigvall);
BTICardAPI ULONG BTICard_IRIGFieldGetMillisec(ULONG irigvalh,ULONG irigvall);
BTICardAPI ULONG BTICard_IRIGFieldGetMin(ULONG irigvalh,ULONG irigvall);
BTICardAPI ULONG BTICard IRIGFieldGetSec(ULONG irigvalh, ULONG irigvall);
BTICardAPI VOID BTICard IRIGFieldPutDays(ULONG value, LPULONG irigvalh, LPULONG irigvall);
BTICardAPI VOID BTICard_IRIGFieldPutHours(ULONG value,LPULONG irigvalh,LPULONG irigvall);
BTICardAPI VOID BTICard_IRIGFieldPutMicrosec(ULONG value,LPULONG irigvalh,LPULONG irigvall);
BTICardAPI VOID BTICard_IRIGFieldPutMillisec(ULONG value,LPULONG irigvalh,LPULONG irigvall);
BTICardAPI VOID BTICard_IRIGFieldPutMin(ULONG value,LPULONG irigvalh,LPULONG irigvall);
BTICardAPI VOID BTICard_IRIGFieldPutSec(ULONG value,LPULONG irigvalh,LPULONG irigvall);
BTICardAPI ERRVAL BTICard_IRIGRd(LPBTIIRIGTIME irigtime, HCARD handleval);
BTICardAPI ERRVAL BTICard_IRIGRdEx(LPUSHORT timebuf, HCARD handleval);
BTICardAPI BOOL BTICard_IRIGSyncStatus(HCARD handleval);
BTICardAPI ERRVAL BTICard_IRIGWr(LPBTIIRIGTIME irigtime, HCARD handleval);
BTICardAPI ERRVAL BTICard_IRIGWrEx(LPUSHORT timebuf, HCARD handleval);
BTICardAPI ULONG BTICard_MakeLong(USHORT valh, USHORT vall);
BTICardAPI USHORT BTICard_MakeWord(BYTE valh, BYTE vall);
BTICardAPI LPSTR BTICard_MantToAscii(LPSTR buf,long mant,int exp);
BTICardAPI ULONG BTICard_Mask(ULONG dataval, USHORT cntval);
BTICardAPI VOID BTICard_MaxMant(LPULONG mant,LPINT exp);
BTICardAPI ULONG BTICard_Mod(ULONG moda,ULONG modb);
BTICardAPI ULONG BTICard_Mul(ULONG mula,ULONG mulb);
BTICardAPI VOID BTICard_NormalMant(LPULONG mant,LPINT exp);
BTICardAPI USHORT BTICard_PortRd(INT addrval, HCARD handleval);
BTICardAPI VOID BTICard_PortWr(USHORT value,INT addrval,HCARD handleval);
BTICardAPI USHORT BTICard_ProgRdW(ULONG addrval, HCARD handleval);
BTICardAPI VOID BTICard_ProgWrW(USHORT value,ULONG addrval,HCARD handleval);
BTICardAPI VOID BTICard_RAMFill(USHORT value,ULONG addrval,ULONG countval,HCARD handleval);
BTICardAPI USHORT BTICard_RAMRdB(ULONG addrval, HCARD handleval);
BTICardAPI ULONG BTICard_RAMRdL(ULONG addrval, HCARD handleval);
BTICardAPI VOID BTICard_RAMRdmL(LPULONG valueptr,LPULONG addrptr,INT countval,HCARD handleval);
BTICardAPI VOID BTICard_RAMRdmW(LPUSHORT valueptr, LPULONG addrptr, INT countval, HCARD handleval);
BTICardAPI VOID BTICard_RAMRdsL(LPULONG valueptr,ULONG addrval,INT countval,HCARD handleval);
BTICardAPI VOID BTICard_RAMRdsW(LPUSHORT valueptr,ULONG addrval,INT countval,HCARD handleval);
BTICardAPI USHORT BTICard RAMRdW(ULONG addrval, HCARD handleval);
BTICardAPI VOID BTICard RAMWipe(HCARD handleval);
BTICardAPI VOID BTICard_RAMWipeEx(USHORT value, HCARD handleval);
BTICardAPI VOID BTICard RAMWrB(USHORT value, ULONG addrval, HCARD handleval);
BTICardAPI VOID BTICard RAMWrL(ULONG value, ULONG addrval, HCARD handleval);
BTICardAPI VOID BTICard RAMWrmL(LPULONG valueptr, LPULONG addrptr, INT countval, HCARD handleval);
BTICardAPI VOID BTICard RAMWrmW(LPUSHORT valueptr, LPULONG addrptr, INT countval, HCARD handleval);
BTICardAPI VOID BTICard RAMWrsL(LPULONG valueptr, ULONG addrval, INT countval, HCARD handleval);
BTICardAPI VOID BTICard RAMWrsW(LPUSHORT valueptr, ULONG addrval, INT countval, HCARD handleval);
BTICardAPI VOID BTICard_RAMWrW(USHORT value,ULONG addrval,HCARD handleval);
BTICardAPI ERRVAL BTICard ROMProg(USHORT enableflag, LPUSHORT valueptr, USHORT count, ULONG
addrval, HCARD handleval);
BTICardAPI ULONG BTICard ReverseLong(ULONG value);
BTICardAPI USHORT BTICard ReverseWord(USHORT value);
BTICardAPI ULONG BTICard SeqBlkRd(LPUSHORT buf,ULONG bufcount,LPULONG blkcnt,HCARD handleval);
BTICardAPI ULONG BTICard SeqBlkRdEx(LPUSHORT buf,ULONG bufcount,ULONG maxblkcnt,LPULONG
blkcnt,HCARD handleval);
BTICardAPI ERRVAL BTICard_SeqClear(HCARD handleval);
```

```
BTICardAPI USHORT BTICard SeqCommRd(LPUSHORT buf,USHORT bufcount,HCARD handleval);
BTICardAPI ERRVAL BTICard_SeqConfig(ULONG configval, HCARD handleval);
BTICardAPI ERRVAL BTICard_SeqConfigEx(ULONG configval,ULONG seqcount,USHORT cardnum,HCARD
handleval);
BTICardAPI ERRVAL BTICard_SeqConfigExx(ULONG configval,ULONG seqaddr,ULONG seqcount,USHORT
cardnum, HCARD handleval);
BTICardAPI BOOL BTICard_SeqFindCheckVersion(LPUSHORT pRecord,USHORT version);
BTICardAPI ERRVAL BTICard_SeqFindInit(LPUSHORT seqbuf,INT seqbufsize,LPSEQFINDINFO sfinfo);
BTICardAPI ERRVAL BTICard_SeqFindMore1553(LPSEQRECORDMORE1553 *pRecMore,LPSEQRECORD1553 pRecBase);
BTICardAPI ERRVAL BTICard_SeqFindMore1553Ex(LPSEQRECORDMORE1553 pRecMore,USHORT
recordsize,LPSEQRECORD1553 pRecBase);
BTICardAPI ERRVAL BTICard_SeqFindNext(LPUSHORT *pRecord,LPUSHORT seqtype,LPSEQFINDINFO sfinfo);
BTICardAPI ERRVAL BTICard_SeqFindNext1553(LPSEQRECORD1553 *pRecord,LPSEQFINDINFO sfinfo);
BTICardAPI ERRVAL BTICard_SeqFindNext1553Ex(LPSEQRECORD1553 pRecord, USHORT
recordsize,LPSEQFINDINFO sfinfo);
BTICardAPI ERRVAL BTICard_SeqFindNext429(LPSEQRECORD429 *pRecord,LPSEQFINDINFO sfinfo);
BTICardAPI ERRVAL BTICard_SeqFindNext429Ex(LPSEQRECORD429 pRecord,USHORT recordsize,LPSEQFINDINFO
sfinfo);
BTICardAPI ERRVAL BTICard SeqFindNext708(LPSEQRECORD708 *pRecord,LPSEQFINDINFO sfinfo);
BTICardAPI ERRVAL BTICard SegFindNext708Ex(LPSEQRECORD708 pRecord, USHORT recordsize, LPSEQFINDINFO
BTICardAPI ERRVAL BTICard SeqFindNext717(LPSEQRECORD717 *pRecord,LPSEQFINDINFO sfinfo);
BTICardAPI ERRVAL BTICard SegFindNext717Ex(LPSEQRECORD717 pRecord, USHORT recordsize, LPSEQFINDINFO
sfinfo);
BTICardAPI ERRVAL BTICard SeqFindNextCSDB(LPSEQRECORDCSDB *pRecord,LPSEQFINDINFO sfinfo);
BTICardAPI ERRVAL BTICard_SeqFindNextCSDBEx(LPSEQRECORDCSDB pRecord,USHORT
recordsize, LPSEQFINDINFO sfinfo);
BTICardAPI ERRVAL BTICard SeqFindNextDIO(LPSEQRECORDDIO *pRecord,LPSEQFINDINFO sfinfo);
BTICardAPI ERRVAL BTICard_SeqFindNextDIOEx(LPSEQRECORDDIO pRecord, USHORT recordsize, LPSEQFINDINFO
sfinfo);
BTICardAPI ERRVAL BTICard SegFindNextEx(LPUSHORT pRecord, USHORT recordcount, LPUSHORT
seqtype,LPSEQFINDINFO sfinfo);
BTICardAPI INT BTICard_SeqInterval(INT interval,INT mode,HCARD handleval);
BTICardAPI USHORT BTICard_SeqIntervalEx(USHORT shiftval, HCARD handleval);
BTICardAPI BOOL BTICard_SeqIsRunning(HCARD handleval);
BTICardAPI USHORT BTICard_SeqLogFrequency(USHORT logfreq,HCARD handleval);
BTICardAPI USHORT BTICard_SeqRd(LPUSHORT buf, HCARD handleval);
BTICardAPI USHORT BTICard_SeqRdEx(LPUSHORT buf,USHORT bufcount,HCARD handleval);
BTICardAPI BOOL BTICard_SeqResume(HCARD handleval);
BTICardAPI BOOL BTICard_SeqStart(HCARD handleval);
BTICardAPI BOOL BTICard_SeqStatus(HCARD handleval);
BTICardAPI BOOL BTICard_SeqStop(HCARD handleval);
BTICardAPI ULONG BTICard_Shl(ULONG dataval, USHORT cntval);
BTICardAPI ULONG BTICard_Shr(ULONG dataval, USHORT cntval);
BTICardAPI USHORT BTICard_SignMant(LPCSTR str);
BTICardAPI ERRVAL BTICard_SwapEndianL(LPULONG value);
BTICardAPI INT BTICard_TickTimerStart(INT milliseconds);
BTICardAPI BOOL BTICard_TickTimerValid(INT timer);
BTICardAPI VOID BTICard_TimerClear(HCARD handleval);
BTICardAPI ULONG BTICard_TimerRd(HCARD handleval);
BTICardAPI INT BTICard_TimerResolution(INT timerresol, HCARD handleval);
BTICardAPI USHORT BTICard TimerResolutionEx(USHORT timershift, HCARD handleval);
BTICardAPI VOID BTICard TimerWr(ULONG value, HCARD handleval);
BTICardAPI LPSTR BTICard ValAsciiCat(LPSTR strdest,LPCSTR strsrc);
BTICardAPI INT BTICard ValAsciiCmpi(LPSTR str1,LPSTR str2);
BTICardAPI LPSTR BTICard ValAsciiCpy(LPSTR strdest,LPCSTR strsrc,INT count);
BTICardAPI VOID BTICard_ValAsciiTrimLead(LPSTR buf);
BTICardAPI VOID BTICard_ValAsciiTrimTrail(LPSTR buf);
BTICardAPI VOID BTICard ValAsciiTrimZero(LPSTR buf);
BTICardAPI ULONG BTICard_ValFromAscii(LPCSTR asciistr,INT radixval);
BTICardAPI ULONG BTICard_ValGetBits(ULONG oldvalue,INT startbit,INT endbit);
BTICardAPI LPSTR BTICard_ValIncAscii(LPSTR asciistr);
BTICardAPI LPSTR BTICard_ValInccAscii(LPSTR asciistr);
BTICardAPI BOOL BTICard ValIsLower(INT value);
BTICardAPI INT BTICard ValLenAscii(INT numbits,INT radixval);
BTICardAPI ULONG BTICard_ValPutBits(ULONG oldvalue,ULONG newfld,INT startbit,INT endbit);
BTICardAPI LPSTR BTICard_ValToAscii(ULONG value,LPSTR asciistr,INT numbits,INT radixval);
BTICardAPI INT BTICard ValToUpper(INT value);
BTICardAPI ULONG BTICard_VARRdL(USHORT addrval, HCARD handleval);
```

```
BTICardAPI VOID BTICard VARRdsW(LPUSHORT valueptr, USHORT addrval, INT countval, HCARD handleval);
BTICardAPI USHORT BTICard_VARRdW(USHORT addrval, HCARD handleval);
BTICardAPI VOID BTICard_VARWrL(ULONG value, USHORT addrval, HCARD handleval);
BTICardAPI VOID BTICard_VARWrsW(LPUSHORT valueptr, USHORT addrval, INT countval, HCARD handleval);
BTICardAPI VOID BTICard_VARWrW(USHORT value, USHORT addrval, HCARD handleval);
#ifdef __cplusplus
#endif
/**
   Core number constants
**/
enum { COREA
                             = 0 \times 00000
                                                       //Selects Core A
                 COREB
                                     = 0x0001,
                                                               //Selects Core B
                 COREC
                                     = 0x0002,
                                                               //Selects Core C
                 CORED
                                     = 0x0003
                                                              //Selects Core D
};
/**
   Sequential Record configuration options
**/
enum { SEQCFG_DEFAULT
                             = 0 \times 000000000 L
                                                       //Select all default settings
                 SEQCFG FILLHALT
                                     = 0 \times 000000000 L
                                                               //Enable sequential record in fill and
halt mode (default)
                 SEQCFG_DISABLE
                                     = 0 \times 00000001L
                                                               //Disable sequential record
                 SEQCFG\_CONTINUOUS = 0x000000002L,
                                                               //Enable sequential record in
continuous mode
                                     = 0 \times 000000004 L
                 SEQCFG_DMA
                                                               //Enable monitor in dma mode
                                     = 0x00000008L
                 SEQCFG_FREE
                                                               //Enable sequential record in free mode
                                     = 0x00000010L
                                                               //Enable sequential record in delta
                 SEQCFG_DELTA
mode
                 SEQCFG_INTERVAL
                                     = 0 \times 00000020 L
                                                               //Enable sequential record in interval
mode
                 SEQCFG_NOLOGFULL
                                     = 0 \times 000000000L
                                                               //Do not generate event log when
sequential record is full (default)
                 SEQCFG_LOGFULL
                                     = 0 \times 00001000 L
                                                               //Generate event log when sequential
record is full
                 SEQCFG_NOLOGFREQ
                                     = 0x00000000L
                                                               //Do not generate event logs at a user
specified frequency (default)
                 SEQCFG_LOGFREQ
                                     = 0 \times 00002000 L
                                                               //Generate event logs at user specified
frequency
                 SEQCFG_16K
                                     = 0x00000000L
                                                               //Allocate a 16K sequential record
buffer (default)
                 SEQCFG_ALLAVAIL
                                                               //Allocate all available memory to a
                                     = 0x01000000L
sequential record buffer
                 SEQCFG 32K
                                                               //Allocate a 32K sequential record
                                     = 0 \times 02000000 L
buffer
                 SEQCFG 64K
                                     = 0 \times 04000000 L
                                                               //Allocate a 64K sequential record
buffer
                 SEQCFG 128K
                                     = 0x08000000L
                                                               //Allocate a 128K sequential record
buffer
};
/**
   Sequential Record type fields
**/
                             = 0x00FF,
enum {
        SEQTYPE MASK
                                                       //Sequential record type mask value
                 SEQTYPE 429
                                     = 0 \times 0001
                                                               //Sequential record type is ARINC 429
                 SEQTYPE 717
                                     = 0x0002,
                                                               //Sequential record type is ARINC 717
```

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```
};
/**
  C54x Global Registers
**/
enum { C54_GREG_IMR
                          = 0 \times 00000
                                                   //Interrupt mask register
                C54_GREG_IFR
                               = 0x0001,
                                                            //Interrupt flag register
                C54_GREG_ST0
                                   = 0x0006,
                                                            //Status register 0
                C54_GREG_ST1
                                  = 0 \times 0007
                                                            //Status register 1
                C54_GREG_AL
                                  = 0 \times 00008
                                                            //Accumulator A low word (bits 15-00)
                C54_GREG_AH
                                  = 0x0009,
                                                            //Accumulator A high word (bits 31-16)
                C54_GREG_AG
                                  = 0 \times 0000 A
                                                            //Accumulator A guars bits (bits 39-32)
                C54_GREG_BL
                                  = 0x000B,
                                                            //Accumulator B low word (bits 15-00)
                C54_GREG_BH
                                  = 0x000C,
                                                            //Accumulator B high word (bits 31-16)
                C54_GREG_BG
                                  = 0x000D,
                                                            //Accumulator B guard bits (bits 39-32
                C54_GREG_T
                                  = 0x000E,
                                                            //Temporary register
                C54_GREG_TRN
                                  = 0x000F
                                                            //Transition register
                C54_GREG_AR0
                                  = 0x0010,
                                                            //Auxilliary register 0
                C54 GREG AR1
                                   = 0x0011,
                                                            //Auxilliary register 1
                C54_GREG_AR2
                                   = 0x0012,
                                                            //Auxilliary register 2
                C54_GREG_AR3
                                   = 0x0013,
                                                            //Auxilliary register 3
                C54_GREG_AR4
                                   = 0x0014,
                                                            //Auxilliary register 4
                C54_GREG_AR5
                                   = 0x0015,
                                                            //Auxilliary register 5
                C54_GREG_AR6
                                   = 0x0016,
                                                            //Auxilliary register 6
                C54_GREG_AR7
                                   = 0x0017,
                                                            //Auxilliary register 7
                C54_GREG_SP
                                   = 0x0018,
                                                            //Stack pointer
                C54_GREG_BK
                                   = 0x0019,
                                                            //Circular-buffer size register
                C54_GREG_BRC
                                   = 0x001A,
                                                            //Block-repeat counter
                C54_GREG_RSA
                                   = 0x001B,
                                                            //Block-repeat start address
                C54_GREG_REA
                                   = 0x001C,
                                                            //Block-repeat end address
                C54_GREG_PMST
                                   = 0x001D,
                                                            //Processor mode status register
                C54_GREG_XPC
                                   = 0x001E,
                                                            //Program counter extension register
                C54_GREG_DRR20
                                   = 0x0020,
                                                            //McBSP0 data receive register high
                C54_GREG_DRR10
                                   = 0 \times 0021,
                                                            //McBSP0 data receive register low
                C54_GREG_DXR20
                                   = 0x0022,
                                                            //McBSP0 data transmit register high
                                   = 0x0023,
                                                            //McBSP0 data transmit register low
                C54_GREG_DXR10
                                   = 0x0024,
                C54_GREG_TIM
                                                            //Timer count register
                                   = 0x0025,
                                                            //Timer period register
                C54_GREG_PRD
                                   = 0x0026,
                C54_GREG_TCR
                                                            //Timer control register
                C54_GREG_SWWSR
                                   = 0x0028,
                                                            //External interface software wait-
state register
                C54_GREG_BSCR
                                   = 0x0029,
                                                            //External interface bank-switching
control register
                C54_GREG_SWCR
                                   = 0x002B
                                                            //Software wait-state control register
                                   = 0x002C,
                C54_GREG_HPIC
                                                            //Host port interface control register
                                   = 0x0030,
                C54_GREG_DRR22
                                                            //McBSP2 data receive register high
                C54_GREG_DRR12
                                   = 0x0031,
                                                           //McBSP2 data receive register low
                C54_GREG_DXR22
                                   = 0x0032,
                                                           //McBSP2 data transmit register high
                C54 GREG DXR12
                                   = 0x0033,
                                                           //McBSP2 data transmit register low
                C54_GREG_SPSA2
                                   = 0x0034,
                                                           //McBSP2 sub-address register
                C54_GREG_SPDR2
                                   = 0x0035,
                                                           //McBSP2 sub-address data register
                C54_GREG_SPSA0
                                   = 0x0038,
                                                           //McBSP0 sub-address register
                C54_GREG_SPDR0
                                   = 0x0039,
                                                           //McBSP0 sub-address data register
                C54 GREG DRR21
                                   = 0x0040,
                                                           //McBSP1 data receive register high
                C54 GREG DRR11
                                   = 0x0041,
                                                           //McBSP1 data receive register low
                C54_GREG_DXR21
                                   = 0x0042,
                                                           //McBSP1 data transmit register high
                C54_GREG_DXR11
                                   = 0x0043,
                                                           //McBSP1 data transmit register low
                                   = 0x0048,
                C54_GREG_SPSA1
                                                           //McBSP1 sub-address register
                                   = 0x0049,
                                                            //McBSP1 sub-address data register
                C54_GREG_SPDR1
                C54 GREG DMPREC
                                                            //DMA channel priority and enable
                                   = 0x0054,
control
                C54 GREG DMSBAR
                                   = 0x0055,
                                                            //DMA channel sub-address register
                                                            //DMA channel sub-address data with
                C54 GREG DMADI
                                   = 0x0056,
increment
                C54_GREG_DMADN
                                   = 0x0057,
                                                            //DMA channel sub-address data without
increment
```

```
C54_GREG_CLKMD
                                    = 0x0058
                                                             //Clock-mode register
};
/**
   Event types.
**/
enum { EVENTTYPE_1553MSG
                             = 0x0001,
                                                    //MIL-STD-1553 message
                EVENTTYPE_15530PCODE = 0 \times 0002,
                                                            //MIL-STD-1553 event log opcode
                EVENTTYPE_1553HALT = 0 \times 0003,
                                                             //MIL-STD-1553 schedule halt
                EVENTTYPE_1553PAUSE = 0 \times 0004,
                                                             //MIL-STD-1553 schedule pause
                EVENTTYPE_1553LIST = 0 \times 0005,
                                                             //MIL-STD-1553 list buffer empty/full
                EVENTTYPE_1553SERIAL = 0 \times 0006,
                                                             //MIL-STD-1553 serial empty
                                     = 0 \times 0011,
                EVENTTYPE_429MSG
                                                             //ARINC 429 message
                EVENTTYPE_4290PCODE = 0 \times 0012,
                                                             //ARINC 429 event log opcode
                EVENTTYPE_429HALT = 0x0013,
                                                             //ARINC 429 schedule halt
                EVENTTYPE_{429}PAUSE = 0x0014,
                                                            //ARINC 429 schedule pause
                EVENTTYPE_429LIST
                                     = 0x0015,
                                                             //ARINC 429 list buffer empty/full
                EVENTTYPE_429ERR
                                      = 0x0016.
                                                             //ARINC 429 decoder error detected
                EVENTTYPE_717WORD = 0x0021,
EVENTTYPE_717SUBFRM = 0x0022,
                                                             //ARINC 717 word received
                                                             //ARINC 717 sub frame completed
                EVENTTYPE_717SYNCERR = 0 \times 0023,
                                                             //ARINC 717 receive channel lost
synchronization
                EVENTTYPE_708MSG
                                      = 0x0031,
                                                             //ARINC 708 message
                EVENTTYPE_SEQFULL
                                      = 0x0041
                                                             //Sequential record full
                EVENTTYPE_SEQFREQ
                                      = 0x0042,
                                                             //Sequential record frequency
                                             = 0 \times 0051,
                EVENTTYPE_422TXTHRESHOLD
                                                             //RS-422 TX under threshold
                                             = 0x0052,
                EVENTTYPE_422TXFIFO
                                                             //RS-422 TX underflow
                EVENTTYPE_422RXTHRESHOLD = 0x0053,
                                                             //RS-422 RX over threshold
                                            = 0 \times 0054,
                EVENTTYPE_422RXFIFO
                                                             //RS-422 RX overflow
                EVENTTYPE_422RXERROR
                                             = 0 \times 0055
                                                             //RS-422 RX error
                EVENTTYPE_CSDBMSG = 0 \times 0058,
                                                             //CSDB message
                EVENTTYPE_CSDBOPCODE = 0 \times 0059,
                                                                 //CSDB event log opcode
                EVENTTYPE_CSDBHALT = 0 \times 005A,
                                                             //CSDB schedule halt
                EVENTTYPE_CSDBPAUSE = 0 \times 005B,
                                                             //CSDB schedule pause
                                                           //CSDB list buffer empty/full
                EVENTTYPE_CSDBLIST = 0 \times 005C,
                                    = 0x005D,
                                                            //CSDB decoder error detected
                EVENTTYPE_CSDBERR
                EVENTTYPE_CSDBSYNCERR= 0x005E,
                                                             //CSDB receive channel lost
synchronization
                                      = 0x0060,
                                                             //DIO edge event
                EVENTTYPE_DIOEDGE
                EVENTTYPE_DIOFAULT
                                      = 0x0061
                                                             //DIO fault event
};
/**
  Card Info types
**/
enum { INFOTYPE PLAT
                           = 0x0001,
                                                     //Returns the platform type
                INFOTYPE PROD = 0 \times 0002,
                                                             //Returns the product type
                INFOTYPE_GEN
                                    = 0x0003,
                                                             //Returns the generation number
                INFOTYPE_1553COUNT = 0x0004,
                                                             //Returns the 1553 channel count
                INFOTYPE_1553SIZE = 0 \times 0005,
                                                             //Returns the 1553 channel size
                INFOTYPE_429COUNT = 0 \times 0006,
                                                             //Returns the 429 channel count
                                                             //Returns the 429 channel size
                INFOTYPE 429SIZE
                                    = 0x0007,
                                                             //Returns the 717 channel count
                INFOTYPE_717COUNT = 0 \times 0008,
                                                             //Returns the 717 channel size
                INFOTYPE_717SIZE
                                    = 0x0009
                                                             //Returns the 708 channel count
                INFOTYPE 708COUNT = 0 \times 000A,
```

```
INFOTYPE_708SIZE
                                    = 0x000B,
                                                             //Returns the 708 channel size
                                    = 0x000C
                                                             //Returns the version number
                INFOTYPE_VERSION
                INFOTYPE_DATE
                                    = 0x000D,
                                                             //Returns the version date
                                                             //Returns the channel info
                INFOTYPE_CHINFO
                                    = 0x000E,
                INFOTYPE_422COUNT = 0x000F,
                                                             //Returns the 422 port count
                                                             //Returns the 422 port size
                INFOTYPE_422SIZE
                                   = 0x0010,
                INFOTYPE_CSDBCOUNT = 0 \times 0011,
                                                             //Returns the CSDB channel count
                                                             //Returns the CSDB channel size
                INFOTYPE\_CSDBSIZE = 0x0012,
                                                             //Returns the DIO bank count
                INFOTYPE_DIOCOUNT = 0x0013,
                                                             //Returns the DIO bank size
                INFOTYPE_DIOSIZE
                                   = 0x0014
};
/**
   Co-Processor Info types
**/
enum { COPROCINFO PLAT
                             = 0x0001,
                                                    //Returns the platform type
                COPROCINFO PROD
                                   = 0 \times 0002
                                                             //Returns the product type
                COPROCINFO GEN
                                      = 0x0003,
                                                             //Returns the generation number
                COPROCINFO_VERSION
                                    = 0 \times 0004
                                                             //Returns the version number
(major.minor)
                COPROCINFO_DATE
                                      = 0x0005.
                                                             //Returns the version date
                COPROCINFO_DMA
                                      = 0 \times 0007
                                                             //Returns whether or not CoPorc
supports DMA mode
                COPROCINFO_VERSIONEX = 0x0009
                                                             //Returns the version number
(major.minor.minorminor)
};
/**
  CIS types
**/
enum { CISTYPE_CARD
                           = 0x0001,
                                                   //Select card CIS
                CISTYPE IOMODULE = 0 \times 0002
                                                           //Select I/O module CIS
};
/**
  Handle Info types
**/
                                                   //Returns the Handle Core number
enum { HANDINFO_CORENUM
                           = 0x0001
};
/**
  Trigger flags
**/
                            = 0x0001,
enum { TRIGMASK_TRIGA
                                                    //Selects trigger line A
                                = 0 \times 0002
                TRIGMASK TRIGB
                                                             //Selects trigger line B
                                    = 0 \times 0004
                TRIGMASK TRIGC
                                                             //Selects trigger line C
                TRIGVAL_TRIGAOFF
                                    = 0x0000,
                                                             //Tests for trigger line A inactive
                TRIGVAL_TRIGAON
                                    = 0x0001,
                                                             //Tests for trigger line A active
                TRIGVAL_TRIGBOFF
                                    = 0x0000,
                                                             //Tests for trigger line B inactive
                TRIGVAL_TRIGBON
                                    = 0x0002,
                                                             //Tests for trigger line B active
                TRIGVAL_TRIGCOFF
                                    = 0x0000,
                                                             //Tests for trigger line C inactive
                TRIGVAL_TRIGCON
                                    = 0x0004,
                                                             //Tests for trigger line C active
                                                             //Sets active low polarity for trigger
                TRIGPOL_TRIGAL
                                    = 0x0000,
line A
                                                             //Sets active high polarity for trigger
                TRIGPOL TRIGAH
                                    = 0x0001,
```

```
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```

```
line A
                 TRIGPOL_TRIGBL
                                      = 0 \times 00000
                                                                //Sets active low polarity for trigger
line B
                 TRIGPOL_TRIGBH
                                      = 0 \times 0002
                                                                //Sets active high polarity for trigger
line B
                 TRIGPOL_TRIGCL
                                      = 0 \times 00000
                                                                //Sets active low polarity for trigger
line C
                 TRIGPOL_TRIGCH
                                      = 0x0004
                                                                //Sets active high polarity for trigger
line C
};
/**
   Sync flags
**/
enum { SYNCMASK_SYNCA
                             = 0x0001,
                                                      //Selects sync line A
                 SYNCMASK SYNCB
                                      = 0 \times 0002
                                                               //Selects sync line B
                 SYNCMASK SYNCC
                                      = 0 \times 0004
                                                               //Selects sync line C
                 SYNCPOL SYNCAL
                                      = 0 \times 00000
                                                               //Sets active low polarity for sync line
Α
                 SYNCPOL SYNCAH
                                      = 0 \times 0001,
                                                               //Sets active high polarity for sync
line A
                 SYNCPOL SYNCBL
                                      = 0 \times 00000
                                                               //Sets active low polarity for sync line
                 SYNCPOL SYNCBH
                                      = 0 \times 0002
                                                               //Sets active high polarity for sync
line B
                 SYNCPOL SYNCCL
                                      = 0 \times 00000
                                                               //Sets active low polarity for sync line
C
                 SYNCPOL SYNCCH
                                      = 0 \times 0004
                                                               //Sets active high polarity for sync
line C
};
/**
  Heap flags.
**/
                             = 0 \times 0000,
enum { HEAPCFG_DEFAULT
                                                       //Block is allocated within page
                                                                //Returns address but doesn't make it
                 HEAPCFG_TEST
                                      = 0x0001,
permanent
                 HEAPCFG_NULL
                                      = 0x0002,
                                                                //Returns address but doesn't mark it
as in use
                 HEAPCFG_SPAN
                                      = 0x0004,
                                                                //Block can span pages
                                                                //Does a quick allocation
                 HEAPCFG_QUICK
                                      = 0x0008,
                 HEAPSECT_SRAM
                                                                //Heap section for primary SRAM
                                      = 0x0000
};
   Timer resolutions.
**/
enum { TIMERRESOL 1US
                                                       //1us timer resolution, 1:11:34 range
                             = 1,
                 TIMERRESOL_16US
                                                                //16us timer resolution, 19:05:19 range
                                      = 2
                 TIMERRESOL 1024US = 3
                                                                //1024us timer resolution, 50 day range
};
/**
   Interval calculation modes.
**/
```

```
enum { INTERVALMODE CLOSEST = 1,
                                                    //Finds interval closest to value specified
                INTERVALMODE_LESS
                                                             //Finds closest interval less than
value specified
                INTERVALMODE_GREATER = 3
                                                             //Finds closest interval more than
value specified
};
/**
   Test flags.
**/
enum { TEST_LEVEL_0
                                                    //Test I/O interface
                TEST_LEVEL_1
                                   = 1,
                                                            //Test memory interface
                TEST_LEVEL_2
                                    = 2,
                                                            //Test communication process
                TEST_LEVEL_3
                                                             //Test bus transceiver
};
/**
   Status flags.
**/
enum { STAT_EMPTY
                                                   //Buffer is empty
                STAT_PARTIAL
                                    = 1,
                                                           //Buffer is partially filled
                                    = 2,
                STAT_FULL
                                                           //Buffer is full
                STAT_OFF
                                                           //Buffer is off
};
/**
  Other flags.
**/
                        = 0,
enum { RCV
                XMT
                                 = 1
};
/**
  Error types.
**/
enum { ERR_NONE
                                                   //No error
                ERR_UNKNOWN
                                   = -1,
                                                           //An unexpected error occurred
                                   = -2,
                                                           //A bad version was encountered
                ERR_BADVER
                                   = -3,
                                                           //A bad pointer was passed
                ERR_BADPTR
                                                           //The specified core number doesn't
                ERR NOCORE
                                   = -4,
exist
                ERR BADPARAMS
                                   = -11,
                                                           //CardOpen() called with bad parameters
                ERR NOHANDLES
                                   = -12,
                                                           //CardOpen() already has allocated too
many handles
                                                           //CardOpen() could not find a L43 card
                ERR NOCARD
                                   = -13,
at the specified address
                                                           //CardOpen() could not find the I/O
                ERR_NOIO
                                   = -14,
ports
                                   = -15,
                ERR NOMEM
                                                           //CardOpen() could not find the memory
                ERR BAD16BIT
                                                           //Card is conflicting with another 16-
                                   = -16,
bit card
                ERR WRONGMODEL
                                   = -17,
                                                           //Card does not support this feature
                                                           //CardOpen() could not allocate a memory
                ERR NOSEL
                                   = -18,
selector
                ERR LOCK
                                   = -19,
                                                           //The communication process is locked up
                                   = -20,
                                                           //Too many channels have been configured
                ERR TOOMANY
                ERR BADHANDLE
                                   = -21,
                                                           //A bad handle was specified
```

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	ERR_GOODHANDLE	= -22,	<pre>//The handle is still valid and should</pre>
not be destroye	d		
,	ERR NOTCHAN	= -23,	//Not a valid channel
	ERR_NOTXMT	= -24,	//The Transmitter has not been
configured	2	,	// The Transmitteer has not been
Com igui eu	EDD NOTDCV	_ 25	//The Pecciver has not been configured
	ERR_NOTRCV	= -25,	//The Receiver has not been configured
	ERR_NOTSEQ	= -26,	//The Sequential Record has not been
configured			
	ERR_ALLOC	= -27,	<pre>//There is not enough memory to allocate</pre>
	ERR_VXD	= -28,	//An error occurred in the VXD
	ERR_BADLABEL	= -29,	<pre>//The specified label value is not valid</pre>
	ERR_BADSDI	= -30,	<pre>//The specified sdi value is not</pre>
valid	_	•	·
	ERR_BADMSG	= -31,	//The specified command block is not a
message block	22.13.130	31,	// The Specifical command block is not a
message brock	ERR_BADSCHNDX	= -32,	//Specified command index is out of
nanga	ERK_BAD3CHNDX	32,	//specified command index is out of
range		22	//= 66:
	ERR_BUFSIZE	= -33,	//Insufficient space in user buffer
	ERR_NOCONFIG	= -34,	<pre>//The card has not been properly</pre>
configured			
	ERR_CONFLICTS	= -35,	//Unable to resolve conflicts
	ERR_RANGE	= -36,	//Schedule is out of range
	ERR_FACTOR	= -37,	//A bad factor value was specified
	ERR_NOIOBOOT	= -40,	//Could not talk to IO Boot port of DSP
	ERR_BOOTFULL	= -40, = -41,	//No space to add boot code
	ERR_BOOTNUM	= -42,	//There is no boot code with the
specified numbe			
	ERR_ACCESS	= -43,	//Unable to write to access register
	ERR_ROMVERIFY	= -44,	//Unable to verify the value written to
the ROM			
	ERR_COUNT	= -45,	//An invalid count was specified
	ERR_CRC	= -46,	//There was a bad checksum in the HEX
file		.0,	THE CHAS A BAA CHECKSAM IN CHE HEX
1116	EDD ENAME	_ 47	//Bad filenames were specified
	ERR_FNAME	= -47,	
	ERR_FRDWR	= -48,	//There was an error reading or writing
the HEX file			
	ERR_HEX	= -49,	//There was a bad hex character in the
HEX file			
	ERR_INDEX	= -51,	//The command block index was invalid or
the schedule is		•	• •
	ERR_NOMSGS	= -52,	//No messages specified
	ERR TYPE	= -54,	//There was a bad type value in the HEX
C: 1 -	EKK_ITFE	54,	// There was a bad type value in the HEX
file	500 550 0 50		//= 7
	ERR_ZEROLEN	= -55,	//Zero length was specified
	ERR_BADADDRESS	= -56,	<pre>//A bad address was specified</pre>
	ERR_MSGNDX	= -57,	<pre>//A bad message index was specified</pre>
	ERR_BADTA	= -60,	<pre>//A bad terminal address was specified</pre>
	ERR_BADFRAME	= -61,	//A bad frame time was specified
	ERR_NOTBC	= -62,	//The BC has not been configured
	ERR_NOTRT	= -63,	//The RT has not been configured
	-	= -64,	//The monitor has not been configured
	ERR_NOTMON		
	ERR_SELFIOFAIL	= -71,	//I/O selftest failed
	ERR_SELFMEMFAIL	= -72,	//Memory selftest failed
	ERR_SELFCOMMFAIL	= -73,	//Communication selftest failed
	ERR_SELFXMTFAIL	= -74,	//Transmit selftest failed
	ERR_PLXBUG	= -75,	//PLX bug is causing problems
	ERR_NOTSUPPORTED	-	//Base class does not support feature
	ERR_DLL	= -77,	//A required DLL is missing
	ERR_SEQTYPE	= -80,	//Invlaid sequential record type value
		-	
	ERR_SEQNEXT	= -81,	//Next sequential record does not exist
	ERR_SEQFINDINFO	= -82,	//The SEQFINDINFO structure is not valid
	ERR_SEQBASEPTR	= -83,	//The base pointer passed is invalid
	ERR_SEQMORE	= -84,	<pre>//More (extended) record data does not</pre>
exist			
	ERR_TIMEOUT	= -90,	//Function timed out waiting for data
	ERR_SUBFRMNUM	= -101,	//Invalid SubFrame number was specified
	ERR_WORDNUM	= -102,	//Invalid Word number was specified
	ERR_NOTINSYNC	= -102, = -103,	//Not Synchronized to databus
	ERR_SUPERFRM	= -104,	//SuperFrame not configured

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ERR_SUPERFRMNUM

= -105

//Invalid SuperFrame number was

specified
};

#endif