Bi-di Plug-in Caller API

BBR Co.Ltd.

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Bi-di Plug-in Caller API データ構造

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Bi-di Plug-in Caller API データ構造

構造体 BidiC

2BidiCControl object used in all Bi-di Plug-in APIs.

`#include <bidiPlugin.h>`

変数

- void * **dlHandle**
  Handle returned by dlopen(), if NULL, indicates process type.

- union {
- void * **pLibC**
- struct {
- int **pid**
- int **dataWriteFD**
- int **dataReadFD**
- int **cmdWriteFD**
- int **cmdReadFD**
- } **prc**
- } **mod**
  Union part in the control object.

- **BidiCxt context**
  Current context.

- **BidiCxt saveContext**
  Previous context.

説明

Control object used in all Bi-di Plug-in APIs.

構造体

int BidiC::cmdReadFD

Pipe fd for command reading.

int BidiC::cmdWriteFD

Pipe fd for command writing.

int BidiC::dataReadFD

Pipe fd for data reading.

int BidiC::dataWriteFD

Pipe fd for data writing.

int BidiC::pid

Process ID.

void* BidiC::pLibC

Control object used in Bi-di Plug-in module.

struct { ... } BidiC::prc

Struct data for process type in the control object.

この構造体の説明は次のファイルから生成されました:

- **bidiPlugin.h**

Bi-di Plug-in Caller API ファイル

bidiDbg.h

2bidiDbg.hHeader file of common debug function.

マクロ定義

- #define **_dbgPrint**(msg)
  Function for the debug printing avaiable only in debug version.

説明

Header file of common debug function.

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マクロ定義

#define _dbgPrint(msg)

Function for the debug printing avaiable only in debug version.

引数:

msg Print message.

bidiPlugin.c

2bidiPlugin.cImpletation of Bi-di Plug-in caller API.

```
#include <stdio.h>
#include <strings.h>
#include <unistd.h>
#include <errno.h>
#include <dlfcn.h>
#include <setjmp.h>
#include <signal.h>
#include "bidiPlugin.h"
#include "bidiDbg.h"
```

データ構造

- struct **_pipeFDs**

マクロ定義

- #define **_GNU_SOURCE**
- #define **MAX_PATH_LEN** 128
  Maximum byte length of the module path name.

関数

- void **sigExit** (void)
  Signal handler for longjmp.

- int **getInt** (unsigned char *buf)
  Get int value from 4 bytes chars by Big Endian rule.

- void **setInt** (unsigned int val, char *buf)
  Set 4 bytes chars from the int value by Big Endian rule.

- int **fullRead** (int fd, char *buf, int size)
  Read the data from the fd as possible.

- int **fullWrite** (int fd, char *buf, int size)
  Write the data to the fd as posible.

- int **readHeader** (int fd, int *cmdID)

Read the packet header.

- int **readBody** (int fd, int cnt, int args[])
  Read the packet body when the body is array of the int data.

- int **writePacket** (int fd, int cmdID, int cnt, int args[])
  Write the packet when the body is array of the int data.

- int **writePacket2** (int fd, int cmdID, int arg1, char *arg2)
  Write the packet when the body is string data.

- int **createProcess** (struct _pipeFDs *fds, char *pName, int fdRead, int fdWrite, char *pURI)
  Create the process type of Plug-in module binded by 2 bi-directinal pipes.

- **BidiC** * **bidiNew** (char *pName, int fdRead, int fdWrite, char *pURI)
  Create a new Bi-di Object.

- void **bidiDestroy** (**BidiC** *pBidiC)
  Destroy the Bi-di Object.

- int **bidiGetCap** (**BidiC** *pBidiC, **BidiCap** cap)
  Get the Bi-di Object capabilities.

- int **bidiStartJob** (**BidiC** *pBidiC, int idJob)
  Start the printing job sequence.

- int **bidiEndJob** (**BidiC** *pBidiC)
  Stop the printing job sequence.

- int **bidiCancelJob** (**BidiC** *pBidiC, int idJob)
  Cancel the printing job sequence.

- int **bidiGetReadFD** (**BidiC** *pBidiC)
  Get the file descriptor for reading from the Bi-di Object.

- int **bidiStartRead** (**BidiC** *pBidiC, **BidiReadMode** idReadMode, char *pLang)
  Start the reading sequence.

- int **bidiRead** (**BidiC** *pBidiC, void *pBuf, int nBufBytes)
  Read the printer status from the Bi-di Object.

- int **bidiEndRead** (**BidiC** *pBidiC)

Stop the reading sequence.

- int **bidiGetWriteFD** (**BidiC** *pBidiC)
  Get the file descriptor for writing to the Bi-di Object.

- int **bidiStartWrite** (**BidiC** *pBidiC)
  Start the writing sequence.

- int **bidiWrite** (**BidiC** *pBidiC, void *pBuf, int nBufBytes)
  Write data to the Bi-di Object.

- int **bidiEndWrite** (**BidiC** *pBidiC)
  Stop the writing sequence.

- int **bidiCtrl** (**BidiC** *pBidiC, int idRequest, void *pData, int nDataBytes)
  Control the Bi-di Object.

変数

- jmp_buf **env**
  Variable of the stack context.

説明

Impletation of Bi-di Plug-in caller API.

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関数

int bidiCancelJob (BidiC * *pBidiC*, int *idJob*)

Cancel the printing job sequence.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.
idJob Job ID.

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.
BIDI_EPROGRESS When the job can't stop(the job is running).
BIDI_ENDJOB When the job is not exist in Bi-di Plug-in module.

int bidiCtrl (BidiC * *pBidiC*, int *idRequest*, void * *pData*, int *nDataBytes*)

Control the Bi-di Object.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.
idRequest Request ID.
pData Pointer to the for each request.
nDataBytes Number of bytes of the data.

戻り値:

>0 Number of bytes of the data read.
0 When no data remains.
BIDI_ERROR When error.
BIDI_EINTR When accepted signals.

void bidiDestroy (BidiC * *pBidiC*)

Destroy the Bi-di Object.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

None.

int bidiEndJob (BidiC * *pBidiC*)

Stop the printing job sequence.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.
BIDI_EPROGRESS When the job can't stop(the job is running).

int bidiEndRead (BidiC * *pBidiC*)

Stop the reading sequence.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.

int bidiEndWrite (BidiC * *pBidiC*)

Stop the writing sequence.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.

int bidiGetCap (BidiC * *pBidiC*, BidiCap *cap*)

Get the Bi-di Object capabilities.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.
cap Enum of the Bi-di Object capabilities.

戻り値:

BIDI_TRUE The condition specified by cap is true.
BIDI_FALSE The condition specified by cap is false.
BIDI_ERROR When error.

int bidiGetReadFD (BidiC * *pBidiC*)

Get the file descriptor for reading from the Bi-di Object.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

File descriptor. BIDI_ERROR when error.

int bidiGetWriteFD (BidiC * *pBidiC*)

Get the file descriptor for writing to the Bi-di Object.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

File descriptor,BIDI_ERROR when error.

BidiC* bidiNew (char * *pName*, int *fdRead*, int *fdWrite*, char * *pURI*)

Create a new Bi-di Object.

This function MUST be supported.

引数:

pName Name of the Bi-di Plug-in library or Bi-di Plug-in program.
fdRead File descriptor for reading the printer status data from the Bi-di Plug-in module.
fdWrite File descriptor for writing the printer command data to the Bi-di Plug-in module.
pURI Device URI.

戻り値:

Pointer to the Bi-di Object, NULL when error.

int bidiRead (BidiC * *pBidiC*, void * *pBuf*, int *nBufBytes*)

Read the printer status from the Bi-di Object.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.
pBuf Pointer to the buffer for storing the printer status data.
nBufBytes Number of bytes of the printer status data buffer.

戻り値:

>0 Number of bytes of the printer status data read.
0 When no data remains.
BIDI_ERROR When error.
BIDI_EINTR When accepted signals.(read 0byte)

int bidiStartJob (BidiC * *pBidiC*, int *idJob*)

Start the printing job sequence.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.
idJob Job ID.

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.
BIDI_EPROGRESS When the job is running.

int bidiStartRead (BidiC * *pBidiC*, BidiReadMode *idReadMode*, char * *pLang*)

Start the reading sequence.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.
idReadMode Enum of the Bi-di Object reading mode.
pLang Pointer to the language string. (ロケール指定文字列と同様の言語+地域+文字コード指定文字列) NULL可

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.
BIDI_EINTR When accepted signals.

int bidiStartWrite (BidiC * *pBidiC*)

Start the writing sequence.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.
BIDI_EINTR When accepted signals.(read 0byte)

int bidiWrite (BidiC * *pBidiC*, void * *pBuf*, int *nBufBytes*)

Write data to the Bi-di Object.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.
pBuf Pointer to the buffer for writing data.
nBufBytes Number of bytes of the writing data.

戻り値:

>0 Number of bytes of the writing data.

0 When no data written.
BIDI_ERROR When error.
BIDI_EINTR When accepted signals.(write 0byte)

int createProcess (struct _pipeFDs * *fds*, char * *pName*, int *fdRead*, int *fdWrite*, char * *pURI*) [static]

Create the process type of Plug-in module binded by 2 bi-directinal pipes.

引数:

fds Pointer of the struct data includes the File descriptors of 2 bi-directinal pipes. (output)
pName Name of the Bi-di Plug-in library or Bi-di Plug-in program.
fdRead File descriptor for reading the printer status data from the Bi-di Plug-in module.
fdWrite File descriptor for writing the printer command data to the Bi-di Plug-in module.
pURI Device URI.

戻り値:

ID of the created process, -1 when error.

int fullRead (int *fd*, char * *buf*, int *size*) [static]

Read the data from the fd as possible.

引数:

fd File descriptor.
buf Pointer to the buffer for reading data.
size Number of bytes of the read data buffer.

戻り値:

>0 Number of bytes of the read data.
0 When no data remains.
-1 When error.

int fullWrite (int *fd*, char * *buf*, int *size*) [static]

Write the data to the fd as posible.

引数:

fd File descriptor.
buf Pointer to the buffer for writing data.

size Number of bytes of the write data buffer.

戻り値:

>=0 Number of bytes of the write data.
-1 When error.

int getInt (unsigned char * *buf*) [static]

Get int value from 4 bytes chars by Big Endian rule.

引数:

buf Big Endianルールで整列した intを表現する4バイト文字列。

戻り値:

変換後のint値

int readBody (int *fd*, int *cnt*, int *args*[]) [static]

Read the packet body when the body is array of the int data.

引数:

fd File descriptor.
cnt Number of the data.
args Array of the int data. (output)

戻り値:

Number of bytes of the packet body, -1 when error.

int readHeader (int *fd*, int * *cmdID*) [static]

Read the packet header.

引数:

fd File descriptor.
cmdID Command ID. (output)

戻り値:

Number of bytes of the packet body, -1 when error.

void setInt (unsigned int *val*, char * *buf*) [static]

Set 4 bytes chars from the int value by Big Endian rule.

引数:

val int value.
buf Pointer to the 4 bytes chars.

戻り値:

None.

void sigExit (void) [static]

Signal handler for longjmp.

戻り値:

None.

int writePacket (int *fd*, int *cmdID*, int *cnt*, int *args*[]) [static]

Write the packet when the body is array of the int data.

引数:

fd File descriptor.
cmdID Command ID.
cnt Number of the data.
args Array of the int data.

戻り値:

Number of bytes of the write packet, -1 when error.

int writePacket2 (int *fd*, int *cmdID*, int *arg1*, char * *arg2*) [static]

Write the packet when the body is string data.

引数:

fd File descriptor.
cmdID Command ID.
arg1 Length of the string data.
arg2 String data.

戻り値:

Number of bytes of the write packet, -1 when error.

bidiPlugin.h

2bidiPlugin.hHeader file of Bi-di Plug-in caller API.

データ構造

- struct **BidiC**
  Control object used in all Bi-di Plug-in APIs.

マクロ定義

- #define **BIDI_OK** 0
  Return value shows normal return.

- #define **BIDI_FALSE** 0
  Return value shows false value.

- #define **BIDI_TRUE** 1
  Return value shows true value.

- #define **BIDI_ERROR** (-1)
  Return value shows error return.

- #define **BIDI_EINTR** (-2)
  Return value shows signal interuption.

- #define **BIDI_EPROGRESS** (-3)
  Return value shows in processing.

- #define **BIDI_ENOJOB** (-4)
  Return value shows no job.

- #define **BIDI_CMD_NEW** 0x00000001
  *Command ID of the **bidiNew()** function.*

- #define **BIDI_CMD_DESTROY** 0x00000002
  *Command ID of the **bidiDestroy()** function.*

- #define **BIDI_CMD_GETCAP** 0x00000003

*Command ID of the **bidiGetCap()** function.*

- #define **BIDI_CMD_STARTJOB** 0x00000011
  *Command ID of the **bidiStartJob()** function.*

- #define **BIDI_CMD_ENDJOB** 0x00000012
  *Command ID of the **bidiEndJob()** function.*

- #define **BIDI_CMD_CANCELJOB** 0x00000013
  *Command ID of the **bidiCancelJob()** function.*

- #define **BIDI_CMD_STARTREAD** 0x00000021
  *Command ID of the **bidiStartRead()** function.*

- #define **BIDI_CMD_ENDREAD** 0x00000022
  *Command ID of the **bidiEndRead()** function.*

- #define **BIDI_CMD_READ** 0x00000023
  *Command ID of the **bidiRead()** function.*

- #define **BIDI_CMD_STARTWRITE** 0x00000031
  *Command ID of the **bidiStartWrite()** function.*

- #define **BIDI_CMD_ENDWRITE** 0x00000032
  *Command ID of the **bidiEndWrite()** function.*

- #define **BIDI_CMD_WRITE** 0x00000033
  *Command ID of the **bidiWrite()** function.*

- #define **BIDI_CMD_CTRL** 0x00000034
  *Command ID of the **bidiCtrl()** function.*

- #define **BIDI_CMD_OK** 0x80000000
  Command ID of response shows normal processing.

- #define **BIDI_CMD_ERROR** 0x80000001
  Command ID of response shows illegal operation.

- #define **BIDI_PLUGIN_VERSION** 0x00010000
  Minimum version of Plug-in module which can be accepted.

列挙型

- enum **BidiCap** { **BIDI_CAP_WRITE** = 1, **BIDI_CAP_JOB** = 2, **BIDI_CAP_CTRL** = 3 }
  *Enum type used in the **bidiGetCap()** function.*

- enum **BidiReadMode** { **BIDI_READ_PRT_MIB_SUMMARY** = 1 }
  Enum type shows the read mode of the print status.

- enum **BidiCxt** { **BIDI_CXT_NORMAL**, **BIDI_CXT_READIN**, **BIDI_CXT_WRITEIN**, **BIDI_CXT_JOBIN** }
  Enum type shows the context status.

関数

- **BidiC** * **bidiNew** (char *pName, int fdRead, int fdWrite, char *pURI)
  Create a new Bi-di Object.

- void **bidiDestroy** (**BidiC** *pBidiC)
  Destroy the Bi-di Object.

- int **bidiGetCap** (**BidiC** *pBidiC, **BidiCap** cap)
  Get the Bi-di Object capabilities.

- int **bidiStartJob** (**BidiC** *pBidiC, int idJob)
  Start the printing job sequence.

- int **bidiEndJob** (**BidiC** *pBidiC)
  Stop the printing job sequence.

- int **bidiCancelJob** (**BidiC** *pBidiC, int idJob)
  Cancel the printing job sequence.

- int **bidiGetReadFD** (**BidiC** *pBidiC)
  Get the file descriptor for reading from the Bi-di Object.

- int **bidiStartRead** (**BidiC** *pBidiC, **BidiReadMode** idReadMode, char *pLang)
  Start the reading sequence.

- int **bidiRead** (**BidiC** *pBidiC, void *pBuf, int nBufBytes)
  Read the printer status from the Bi-di Object.

- int **bidiEndRead** (**BidiC** *pBidiC)

Stop the reading sequence.

- int **bidiGetWriteFD** (**BidiC** *pBidiC)
  Get the file descriptor for writing to the Bi-di Object.

- int **bidiStartWrite** (**BidiC** *pBidiC)
  Start the writing sequence.

- int **bidiWrite** (**BidiC** *pBidiC, void *pBuf, int nBufBytes)
  Write data to the Bi-di Object.

- int **bidiEndWrite** (**BidiC** *pBidiC)
  Stop the writing sequence.

- int **bidiCtrl** (**BidiC** *pBidiC, int idRequest, void *pData, int nDataBytes)
  Control the Bi-di Object.

説明

Header file of Bi-di Plug-in caller API.

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列挙型

enum BidiCap

Enum type used in the **bidiGetCap()** function.

列挙型の値:

BIDI_CAP_WRITE Supports the **bidiStartWrite()**, **bidiEndWrite()** and the **bidiWrite()** functions.
BIDI_CAP_JOB Supports the **bidiStartJob()**, **bidiEndJob()** and the **bidiCancelJob()** functions.
BIDI_CAP_CTRL Supports the **bidiCtrl()** function.

enum BidiCxt

Enum type shows the context status.

列挙型の値:

BIDI_CXT_NORMAL Context shows normal status.
BIDI_CXT_READIN Context shows between the start and the end read.
BIDI_CXT_WRITEIN Context shows between the start and the end write.
BIDI_CXT_JOBIN Context shows between the start and the end job.

enum BidiReadMode

Enum type shows the read mode of the print status.

列挙型の値:

BIDI_READ_PRT_MIB_SUMMARY 短縮形式のプリンタステータスをreadする。

関数

int bidiCancelJob (BidiC * *pBidiC*, int *idJob*)

Cancel the printing job sequence.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.
idJob Job ID.

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.
BIDI_EPROGRESS When the job can't stop(the job is running).
BIDI_ENDJOB When the job is not exist in Bi-di Plug-in module.

int bidiCtrl (BidiC * *pBidiC*, int *idRequest*, void * *pData*, int *nDataBytes*)

Control the Bi-di Object.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.
idRequest Request ID.
pData Pointer to the for each request.
nDataBytes Number of bytes of the data.

戻り値:

>0 Number of bytes of the data read.
0 When no data remains.
BIDI_ERROR When error.
BIDI_EINTR When accepted signals.

void bidiDestroy (BidiC * *pBidiC*)

Destroy the Bi-di Object.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

None.

int bidiEndJob (BidiC * *pBidiC*)

Stop the printing job sequence.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.
BIDI_EPROGRESS When the job can't stop(the job is running).

int bidiEndRead (BidiC * *pBidiC*)

Stop the reading sequence.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.

int bidiEndWrite (BidiC * *pBidiC*)

Stop the writing sequence.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.

int bidiGetCap (BidiC * *pBidiC*, BidiCap *cap*)

Get the Bi-di Object capabilities.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.
cap Enum of the Bi-di Object capabilities.

戻り値:

BIDI_TRUE The condition specified by cap is true.
BIDI_FALSE The condition specified by cap is false.
BIDI_ERROR When error.

int bidiGetReadFD (BidiC * *pBidiC*)

Get the file descriptor for reading from the Bi-di Object.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

File descriptor. BIDI_ERROR when error.

int bidiGetWriteFD (BidiC * *pBidiC*)

Get the file descriptor for writing to the Bi-di Object.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

File descriptor,BIDI_ERROR when error.

BidiC* bidiNew (char * *pName*, int *fdRead*, int *fdWrite*, char * *pURI*)

Create a new Bi-di Object.

This function MUST be supported.

引数:

pName Name of the Bi-di Plug-in library or Bi-di Plug-in program.
fdRead File descriptor for reading the printer status data from the Bi-di Plug-in module.
fdWrite File descriptor for writing the printer command data to the Bi-di Plug-in module.
pURI Device URI.

戻り値:

Pointer to the Bi-di Object, NULL when error.

int bidiRead (BidiC * *pBidiC*, void * *pBuf*, int *nBufBytes*)

Read the printer status from the Bi-di Object.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.
pBuf Pointer to the buffer for storing the printer status data.
nBufBytes Number of bytes of the printer status data buffer.

戻り値:

>0 Number of bytes of the printer status data read.
0 When no data remains.
BIDI_ERROR When error.
BIDI_EINTR When accepted signals.(read 0byte)

int bidiStartJob (BidiC * *pBidiC*, int *idJob*)

Start the printing job sequence.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.
idJob Job ID.

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.
BIDI_EPROGRESS When the job is running.

int bidiStartRead (BidiC * *pBidiC*, BidiReadMode *idReadMode*, char * *pLang*)

Start the reading sequence.

This function MUST be supported.

引数:

pBidiC Pointer to the Bi-di Object.
idReadMode Enum of the Bi-di Object reading mode.
pLang Pointer to the language string. (ロケール指定文字列と同様の言語+地域+文字コード指定文字列) NULL可

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.

BIDI_EINTR When accepted signals.

int bidiStartWrite (BidiC * *pBidiC*)

Start the writing sequence.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.

戻り値:

BIDI_OK Normal terminated.
BIDI_ERROR When error.
BIDI_EINTR When accepted signals.(read 0byte)

int bidiWrite (BidiC * *pBidiC*, void * *pBuf*, int *nBufBytes*)

Write data to the Bi-di Object.

This function is OPTIONAL.

引数:

pBidiC Pointer to the Bi-di Object.
pBuf Pointer to the buffer for writing data.
nBufBytes Number of bytes of the writing data.

戻り値:

>0 Number of bytes of the writing data.
0 When no data written.
BIDI_ERROR When error.
BIDI_EINTR When accepted signals.(write 0byte)

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