bidibackend Reference Manual

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Chapter 1

bidiBackend API Document

This package contains two modules.

bidibackend - CUPS backend programs which support Bidi status read.

libbidiformat - XML parse library which is support Bidi status format(like Printer-MIB).

Author:
Toshihiro Yamagishi<toshihiro@turbolinux.co.jp>

Date:Date
2004/02/18 20:49:03

Chapter 2

bidibackend Module Index

2.1 bidibackend Modules

Here is a list of all modules:

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Test programs. 11

Chapter 3

bidibackend Compound Index

3.1 bidibackend Compound List

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bidibackend File Index

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bidibackend Module Documentation

5.1 Parallel/USB CUPS backend.

Files

- file backendCommon.c

  definition of functions used by backend and Bidi object.

- file backendWrapperBidi.c

  definition of wrapper object for Bidi.

- file backendWriteData.c

  Functions for outputting print data to printer,fetching printer status from bidi module.

- file bidiparallel.c

  Parallel port backend with bidi status read for the Common UNIX Printing System (CUPS).

- file bidiusb.c

  USB port backend with bidi status read for the Common UNIX Printing System (CUPS).

5.2 XML parser library for Bidi format.

Files

- file bidiEntry.c
  Functions for Entry object.
- file bidiEntryCUPS.c
  Functions for infoCUPS object.
- file bidiParser.c
  Functions for Parser object.
- file entryPrtAlert.c
  functions of EntryPrtAlert object.
- file entryPrtLocalization.c
  functions of EntryPrtLocalization object.
- file entryPrtMarkerSupplies.c
  functions of EntryPrtMarkerSupplies object.
- file entryPrtStatus.c
  not in use!!
- file parserPrtAlert.c
  parse PrtAlertEntry.
- file parserPrtLocalization.c
  parse PrtLocalizationEntry.
- file parserPrtMarkerSupplies.c
  parse PrtMarkerSuppliesEntry.
- file parserPrtStatus.c
  not in use!!

5.3 Test programs.

Files

- file checkPlugin.c

  test program for communicating with Bidi module.

- file testformat.c

  test program to check bidiformat.

Chapter 6

bidibackend Class Documentation

6.1 _EntryPrtAlert Struct Reference

`#include <entryPrtAlert.h>`

Collaboration diagram for _EntryPrtAlert:

Public Attributes

- _EntryPrtAlert * next

  link to self

- enumPrtAltSevLevel PrtAltSevLevel

  PrtAlertSeverityLevel enumeration.

- enumPrtAltGrp PrtAltGrp

  PrtAlertGroup enumeration.

- enumPrtAltGrpIndex PrtAltGrpIndex

  PrtAlertGroupIndex enumeration.

- enumPrtAltCode PrtAltCode

  PrtAlertCode enumeration.

- OSTRING * PrtAltDesc

  PrtAlertDescription enumeration.

6.1.1 Member Data Documentation

6.1.1.1 struct _EntryPrtAlert* _EntryPrtAlert::next

link to self

6.1.1.2 enumPrtAltCode _EntryPrtAlert::PrtAltCode

PrtAlertCode enumeration.

6.1.1.3 OSTRING* _EntryPrtAlert::PrtAltDesc

PrtAlertDescription enumeration.

6.1.1.4 enumPrtAltGrp _EntryPrtAlert::PrtAltGrp

PrtAlertGroup enumeration.

6.1.1.5 enumPrtAltGrpIndex _EntryPrtAlert::PrtAltGrpIndex

PrtAlertGroupIndex enumeration.

6.1.1.6 enumPrtAltSevLevel _EntryPrtAlert::PrtAltSevLevel

PrtAlertSeverityLevel enumeration.

The documentation for this struct was generated from the following file:

- entryPrtAlert.h

6.2 _EntryPrtMarkerSupplies Struct Reference

`#include <entryPrtMarkerSupplies.h>`

Collaboration diagram for _EntryPrtMarkerSupplies:

Public Attributes

- _EntryPrtMarkerSupplies * next
  link to self
- enumPrtMarkSupIndex PrtMarkSupIndex
  PrtMarkerSuppliesIndex enumeration.
- enumPrtMarkSupType PrtMarkSupType
  PrtMarkerSuppliesType enumeration.
- OSTRING * PrtMarkSupDesc
  PrtMarkerSuppliesDescription message.
- enumPrtMarkSupSupUnit PrtMarkSupSupUnit
  PrtMarkerSuppliesSupplyUnit enumeration.
- INT32 PrtMarkSupMaxCap
  PrtMarkerSuppliesMaxCapacity value.
- INT32 PrtMarkSupLevel
  PrtMarkerSuppliesLevel value.

6.2.1 Member Data Documentation

6.2.1.1 struct _EntryPrtMarkerSupplies* _EntryPrtMarkerSupplies::next

link to self

6.2.1.2 OSTRING* _EntryPrtMarkerSupplies::PrtMarkSupDesc

PrtMarkerSuppliesDescription message.

6.2.1.3 enumPrtMarkSupIndex _EntryPrtMarkerSupplies::PrtMarkSupIndex

PrtMarkerSuppliesIndex enumeration.

6.2.1.4 INT32 _EntryPrtMarkerSupplies::PrtMarkSupLevel

PrtMarkerSuppliesLevel value.

6.2.1.5 INT32 _EntryPrtMarkerSupplies::PrtMarkSupMaxCap

PrtMarkerSuppliesMaxCapacity value.

6.2.1.6 enumPrtMarkSupSupUnit _EntryPrtMarkerSupplies::PrtMarkSupSupUnit

PrtMarkerSuppliesSupplyUnit enumeration.

6.2.1.7 enumPrtMarkSupType _EntryPrtMarkerSupplies::PrtMarkSupType

PrtMarkerSuppliesType enumeration.

The documentation for this struct was generated from the following file:

- entryPrtMarkerSupplies.h

6.3 _EntryPrtStatus Struct Reference

`#include <entryPrtStatus.h>`

Collaboration diagram for _EntryPrtStatus:

Public Attributes

- _EntryPrtStatus * next
- enumPrtStatusIndex PrtStatIndex
- enumPrtStatusType PrtStatType
- OSTRING * PrtStatDesc

6.3.1 Member Data Documentation

6.3.1.1 struct _EntryPrtStatus* _EntryPrtStatus::next

6.3.1.2 OSTRING* _EntryPrtStatus::PrtStatDesc

6.3.1.3 enumPrtStatusIndex _EntryPrtStatus::PrtStatIndex

6.3.1.4 enumPrtStatusType _EntryPrtStatus::PrtStatType

The documentation for this struct was generated from the following file:

- entryPrtStatus.h

6.4 _infoCUPS Struct Reference

`#include <bidiEntryCUPS.h>`

Collaboration diagram for _infoCUPS:

Public Attributes

- _infoCUPS * next
  link to self
- char state_reason [MESG_SIZE]
  state-reason messages
- char state_messages [MESG_SIZE]
  state-messages messages

6.4.1 Member Data Documentation

6.4.1.1 struct _infoCUPS* _infoCUPS::next

link to self

6.4.1.2 char _infoCUPS::state_messages[MESG_SIZE]

state-messages messages

6.4.1.3 char _infoCUPS::state_reason[MESG_SIZE]

state-reason messages

The documentation for this struct was generated from the following file:

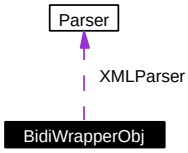
- bidiEntryCUPS.h

6.5 BidiWrapperObj Struct Reference

Wrapper structure containing bidiC,bidi module name,XML parser...

`#include <backendCommon.h>`

Collaboration diagram for BidiWrapperObj:



Public Attributes

- BidiC * bidiC

  Pointer to the real Bidi object.

- char * bidiLang

  Pointer to the locale string.

- int bidiReadFD

  File descriptor of Bidi object for read.

- char * bidiModuleName

  Pointer to the string of Bidi module name.

- int bidiReadInterval

  Number of interval for read status.

- int bidiCapJob

  Whether Bidi object supports bidiStartJob(),bidiEndJob(),bidiCancelJob().

- int bidiDoJob

  Whether it is under doing Job.

- int bidiEprogress

  Whether it is under eprogress.

- int bidiReadStatus

  Whether it is under read status from bidi object.

- int bidiJobID

  Job ID.

- char * XMLinfo

  Pointer to the read status from bidi object.

- size_t infoSize

  Number of bytes of the size for status.

- Parser * XMLParser

  Pointer to the XML parser for parse bidi status.

6.5.1 Detailed Description

Wrapper structure containing bidiC,bidi module name,XML parser...

6.5.2 Member Data Documentation

6.5.2.1 BidiC* BidiWrapperObj::bidiC

Pointer to the real Bidi object.

6.5.2.2 int BidiWrapperObj::bidiCapJob

Whether Bidi object supports bidiStartJob(),bidiEndJob(),bidiCancelJob().

6.5.2.3 int BidiWrapperObj::bidiDoJob

Whether it is under doing Job.

6.5.2.4 int BidiWrapperObj::bidiEprogress

Whether it is under eprogress.

6.5.2.5 int BidiWrapperObj::bidiJobID

Job ID.

6.5.2.6 char* BidiWrapperObj::bidiLang

Pointer to the locale string.

6.5.2.7 char* BidiWrapperObj::bidiModuleName

Pointer to the string of Bidi module name.

6.5.2.8 int BidiWrapperObj::bidiReadFD

File descriptor of Bidi object for read.

6.5.2.9 int BidiWrapperObj::bidiReadInterval

Number of interval for read status.

6.5.2.10 int BidiWrapperObj::bidiReadStatus

Whether it is under read status from bidi object.

6.5.2.11 size_t BidiWrapperObj::infoSize

Number of bytes of the size for status.

6.5.2.12 char* BidiWrapperObj::XMLinfo

Pointer to the read status from bidi object.

6.5.2.13 Parser* BidiWrapperObj::XMLParser

Pointer to the XML parser for parse bidi status.

The documentation for this struct was generated from the following file:

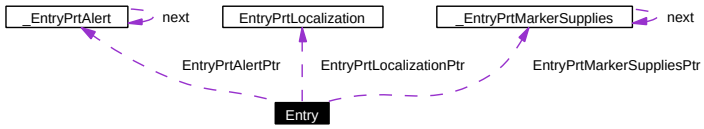
- backendCommon.h

6.6 Entry Struct Reference

The top structure containing the parsed printer status.

`#include <bidiEntry.h>`

Collaboration diagram for Entry:



Public Attributes

- EntryPrtLocalization * EntryPrtLocalizationPtr

  Pointer to EntryPrtLocalization.

- EntryPrtMarkerSupplies * EntryPrtMarkerSuppliesPtr

  Pointer to EntryPrtMarkerSupplies.

- EntryPrtAlert * EntryPrtAlertPtr

  Pointer to EntryPrtAlert.

6.6.1 Detailed Description

The top structure containing the parsed printer status.

6.6.2 Member Data Documentation

6.6.2.1 EntryPrtAlert* Entry::EntryPrtAlertPtr

Pointer to EntryPrtAlert.

6.6.2.2 EntryPrtLocalization* Entry::EntryPrtLocalizationPtr

Pointer to EntryPrtLocalization.

6.6.2.3 EntryPrtMarkerSupplies* Entry::EntryPrtMarkerSuppliesPtr

Pointer to EntryPrtMarkerSupplies.

The documentation for this struct was generated from the following file:

- bidiEntry.h

6.7 EntryPrtAlert Struct Reference

The structure that containing the PrtAlertEntry messages.

`#include <entryPrtAlert.h>`

6.7.1 Detailed Description

The structure that containing the PrtAlertEntry messages.

The documentation for this struct was generated from the following file:

- entryPrtAlert.h

6.8 EntryPrtLocalization Struct Reference

The structure that containing the PrtLocalizatonEntry messages.

`#include <entryPrtLocalization.h>`

Public Attributes

- OSTRING * PrtLocLang

  PrtLocalizationLanguage message.

- CCHARSET PrtLocCharSet

  PrtLocalizationCharacterSet message.

6.8.1 Detailed Description

The structure that containing the PrtLocalizatonEntry messages.

6.8.2 Member Data Documentation

6.8.2.1 CCHARSET EntryPrtLocalization::PrtLocCharSet

PrtLocalizationCharacterSet message.

6.8.2.2 OSTRING* EntryPrtLocalization::PrtLocLang

PrtLocalizationLanguage message.

The documentation for this struct was generated from the following file:

- entryPrtLocalization.h

6.9 EntryPrtMarkerSupplies Struct Reference

The structure that containing the PrtMarkerSuppliesEntry messages.

`#include <entryPrtMarkerSupplies.h>`

6.9.1 Detailed Description

The structure that containing the PrtMarkerSuppliesEntry messages.

The documentation for this struct was generated from the following file:

- entryPrtMarkerSupplies.h

6.10 enumList Struct Reference

`#include <bidiEntry.h>`

Public Attributes

- int value
- const char * name

6.10.1 Member Data Documentation

6.10.1.1 const char* enumList::name

6.10.1.2 int enumList::value

The documentation for this struct was generated from the following file:

- bidiEntry.h

6.11 infoCUPS Struct Reference

The structure containing the IPP messages.

`#include <bidiEntryCUPS.h>`

6.11.1 Detailed Description

The structure containing the IPP messages.

The documentation for this struct was generated from the following file:

- bidiEntryCUPS.h

6.12 Parser Struct Reference

Structure for parser which parse printer status written in XML format.

`#include <bidiParser.h>`

Public Attributes

- xmlTextReaderPtr reader

  libxml2 text reader

- State state

  In which entry is parser.

6.12.1 Detailed Description

Structure for parser which parse printer status written in XML format.

6.12.2 Member Data Documentation

6.12.2.1 xmlTextReaderPtr Parser::reader

libxml2 text reader

6.12.2.2 State Parser::state

In which entry is parser.

The documentation for this struct was generated from the following file:

- bidiParser.h

Chapter 7

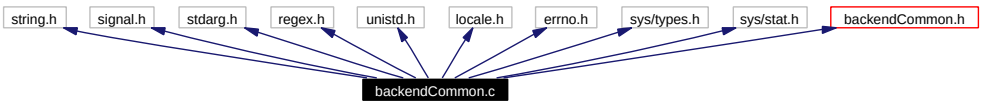
bidibackend File Documentation

7.1 backendCommon.c File Reference

definition of functions used by backend and Bidi object.

```
#include <string.h>
#include <signal.h>
#include <stdarg.h>
#include <regex.h>
#include <unistd.h>
#include <locale.h>
#include <errno.h>
#include <sys/types.h>
#include <sys/stat.h>
#include "backendCommon.h"
```

Include dependency graph for backendCommon.c:



Functions

- void debugPrint (char *msg,...)

  Function for debug print.

- char * getLang (void)

  Function for get program's current locale+UTF-8.

- int fetchPPDEntry (const char *ppdname, BidiWrapperObj *obj)
  Get the value from PPD file.
- int writeXMLdata (BidiWrapperObj *bidiobj, const char *printer_name)
  Function for write status raw data which is not processed by XML parser.
- infoCUPS * parseXML (BidiWrapperObj *bidiobj)
  Function for convert XML status data into IPP data.

7.1.1 Detailed Description

definition of functions used by backend and Bidi object.

This file defines some common functinos which is used by any backend programs.

Date Date
2004/02/24 10:00:03

Version Revision
1.20

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7.1.2 Function Documentation

7.1.2.1 void debugPrint (char * *msg*, ...)

Function for debug print.

Parameters:
msg is print message.

Returns:
None.

7.1.2.2 int fetchPPDEntry (const char * *ppdname*, BidiWrapperObj * *obj*)

Get the value from PPD file.

Parameters:
ppdname filename of PPD file.
obj Pointer to the BidiWrapperObj.

Return values:

-1 Fail.

0 Success.

7.1.2.3 char* getLang (void)

Function for get program's current locale+UTF-8.

Especially ,in case 'ja' Japanese enviroment return the "ja_JP.UTF-8".

Returns:

current LC_MESSAGES locale.

7.1.2.4 infoCUPS* parseXML (BidiWrapperObj * *bidiobj*)

Function for convert XML status data into IPP data.

Parameters:

bidiobj Pointer to BidiWrapperObject.

Returns:

Pointer to infoCUPS object.

7.1.2.5 int writeXMLdata (BidiWrapperObj * *bidiobj*, const char * *printer_name*)

Function for write status raw data which is not processed by XML parser.

Parameters:

bidiobj Pointer to BidiWrapperObject.

printer_name Pointer to file name string to save.

Return values:

< 0 Fail

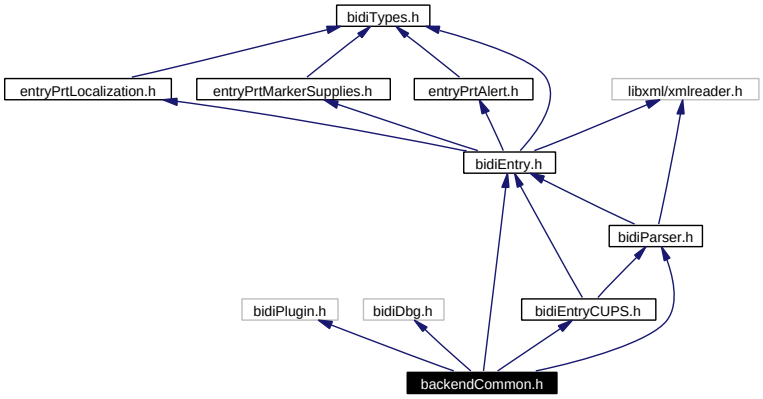
0 Success

7.2 backendCommon.h File Reference

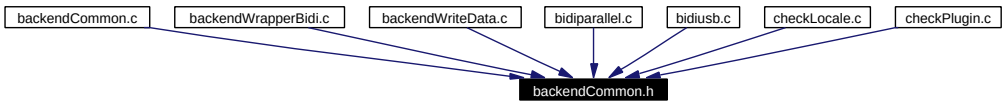
definition of functions used USB and parallel backend.

```
#include <bidiPlugin.h>
#include <bidiDbg.h>
#include <bidiEntry.h>
#include <bidiParser.h>
#include <bidiEntryCUPS.h>
```

Include dependency graph for backendCommon.h:



This graph shows which files directly or indirectly include this file:



Compounds

- struct BidiWrapperObj

  Wrapper structure containing bidiC,bidi module name,XML parser...

Defines

- #define PPD_PLUGIN "*opbidiPlugin"

  Bidi-Plugin module name defined in PPD.

- #define PPD_READ_INTERVAL "*opbidiReadInterval"

Bidi-Plugin interval time defined in PPD.

- #define BIDI_TIMEOUT 3
  Second of timeout.
- #define XML_DIR "/var/log/opbidi/printer/"
  directory name where raw XML data is saved .
- #define STATE_BUF 1024
  size of status buffer
- #define STATE_MESG_SIZE 1024
  size of message buffer
- #define DEBUGPRINT(msg)
  function for debug print

Functions

- void debugPrint (char *msg,...)
  Function for debug print.
- void signal_handler (int)
  Function for signal handler.
- void initSignal (void)
  Initialize signal functions.
- int fetchPPDEntry (const char *, BidiWrapperObj *)
  Get the value from PPD file.
- char * getLang (void)
  Function for get program's current locale+UTF-8.
- infoCUPS * parseXML (BidiWrapperObj *)
  Function for convert XML status data into IPP data.
- int writeXMLdata (BidiWrapperObj *, const char *)
  Function for write status raw data which is not processed by XML parser.
- BidiWrapperObj * newBidiObj (void)
  Constructor that creates an empty BidiWrapperObj.
- BidiWrapperObj * initBidi (const char *, int, const char *)
  Function for initalize BidiWrapperObj.
- void * deleteBidiObj (BidiWrapperObj *)
  Destructor that delete the BidiWrapperObj.

- void deleteBidi (BidiWrapperObj *)
  Wrapper function of bidiDestroy.
- int startBidiJob (BidiWrapperObj *, int)
  Wrapper function of bidiStartJob.
- int endBidiJob (BidiWrapperObj *)
  Wrapper function of bidiEndJob.
- int endBidiRead (BidiWrapperObj *)
  Wrapper function of bidiEndRead.
- int startBidiRead (BidiWrapperObj *, int)
  Wrapper function of bidiStartRead.
- int readBidiStatus (BidiWrapperObj *)
  Wrapper function of bidiReadStatus.

7.2.1 Detailed Description

definition of functions used USB and parallel backend.

Date: Date
2004/02/24 08:56:36

Version: Revision
1.11

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7.2.2 Define Documentation

7.2.2.1 #define BIDI_TIMEOUT 3

Second of timeout.

7.2.2.2 #define DEBUGPRINT(msg)

function for debug print

7.2.2.3 #define PPD_PLUGIN "*opbidiPlugin"

Bidi-Plugin module name defined in PPD.

7.2.2.4 #define PPD_READ_INTERVAL "*opbidiReadInterval"

Bidi-Plugin interval time defined in PPD.

7.2.2.5 #define STATE_BUF 1024

size of status buffer

7.2.2.6 #define STATE_MESG_SIZE 1024

size of message buffer

7.2.2.7 #define XML_DIR "/var/log/opbidi/printer/"

directory name where raw XML data is saved .

7.2.3 Function Documentation

7.2.3.1 void debugPrint (char * *msg*, ...)

Function for debug print.

Parameters:
msg is print message.

Returns:
None.

7.2.3.2 void deleteBidi (BidiWrapperObj * *bidiobj*)

Wrapper function of bidiDestroy.

Parameters:
bidiobj Pointer to BidiWrapperObj.

Returns:
None.

7.2.3.3 void * deleteBidiObj (BidiWrapperObj * *bidiobj*)

Destructor that delete the BidiWrapperObj.

Parameters:
bidiobj Pointer to BidiWrapperObj.

Returns:
None.

7.2.3.4 int endBidiJob (BidiWrapperObj * *bidiobj*)

Wrapper function of bidiEndJob.

Parameters:
bidiobj Pointer to BidiWrapperObj.

Return values:
< 0 Fail.
> 0 Success.

7.2.3.5 int endBidiRead (BidiWrapperObj * *bidiobj*)

Wrapper function of bidiEndRead.

Parameters:
bidiobj Pointer to BidiWrapperObj.

Return values:
< 0 Fail.
> 0 Success.

7.2.3.6 int fetchPPDEntry (const char * *ppdname*, BidiWrapperObj * *obj*)

Get the value from PPD file.

Parameters:
ppdname filename of PPD file.
obj Pointer to the BidiWrapperObj.

Return values:
-1 Fail.
0 Success.

7.2.3.7 char* getLang (void)

Function for get program's current locale+UTF-8.

Especially ,in case 'ja' Japanese enviroment return the "ja_JP.UTF-8".

Returns:
current LC_MESSAGES locale.

7.2.3.8 BidiWrapperObj * initBidi (const char * *PPDfile*, int *FD*, const char * *bidiLang*)

Function for initalize BidiWrapperObj.

Parameters:
PPDfile File path to the PPD file.
FD File descriptor of printer device.
bidiLang Pointer to the language string.

Returns:
Pointer to the new BidiWrapperObj.

7.2.3.9 void initSignal (void)

Initialize signal functions.

7.2.3.10 BidiWrapperObj * newBidiObj (void)

Constructor that creates an empty BidiWrapperObj.

Returns:
Pointer to the initalized BidiWrapperObj.

7.2.3.11 infoCUPS* parseXML (BidiWrapperObj * *bidiobj*)

Function for convert XML status data into IPP data.

Parameters:
bidiobj Pointer to BidiWrapperObject.

Returns:
Pointer to infoCUPS object.

7.2.3.12 int readBidiStatus (BidiWrapperObj * *bidiobj*)

Wrapper function of bidiReadStatus.

Parameters:
bidiobj Pointer to BidiWrapperObj.

Return values:
< 0 Fail.

> 0 Success.

7.2.3.13 void signal_handler (int *sig*)

Function for signal handler.

7.2.3.14 int startBidiJob (BidiWrapperObj * *bidiobj*, int *jobid*)

Wrapper function of bidiStartJob.

Parameters:
bidiobj Pointer to BidiWrapperObj.

jobid Id number of Job.

Return values:
< 0 Fail.

> 0 Success.

7.2.3.15 int startBidiRead (BidiWrapperObj * *bidiobj*, int *bidiReadMode*)

Wrapper function of bidiStartRead.

Parameters:
bidiobj Pointer to BidiWrapperObj.

bidiReadMode Enum of the Bidi reading mode.

Return values:
< 0 Fail.

> 0 Success.

7.2.3.16 int writeXMLdata (BidiWrapperObj * *bidiobj*, const char * *printer_name*)

Function for write status raw data which is not processed by XML parser.

Parameters:

bidiobj Pointer to BidiWrapperObject.

printer_name Pointer to file name string to save.

Return values:

< 0 Fail

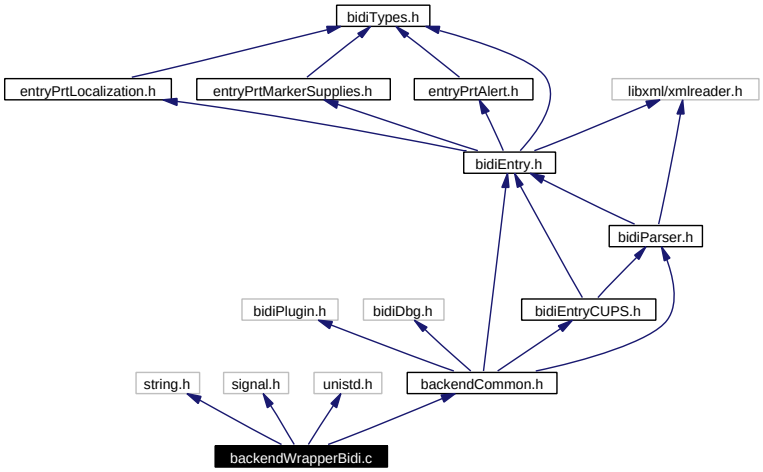
0 Success

7.3 backendWrapperBidi.c File Reference

definition of wrapper object for Bidi.

```
#include <string.h>
#include <signal.h>
#include <unistd.h>
#include "backendCommon.h"
```

Include dependency graph for backendWrapperBidi.c:



Functions

- void signal_handler (int)

  Function for signal handler.

- void initSignal (void)

  Initialize signal functions.

- BidiWrapperObj * newBidiObj (void)

  Constructor that creates an empty BidiWrapperObj.

- void * deleteBidiObj (BidiWrapperObj *)

  Destructor that delete the BidiWrapperObj.

- BidiWrapperObj * initBidi (const char *, int, const char *)

  Function for initalize BidiWrapperObj.

- void deleteBidi (BidiWrapperObj *)

  Wrapper function of bidiDestroy.

- int startBidiJob (BidiWrapperObj *, int)
  Wrapper function of bidiStartJob.
- int endBidiJob (BidiWrapperObj *)
  Wrapper function of bidiEndJob.
- int endBidiRead (BidiWrapperObj *)
  Wrapper function of bidiEndRead.
- int startBidiRead (BidiWrapperObj *, int)
  Wrapper function of bidiStartRead.
- int readBidiStatus (BidiWrapperObj *)
  Wrapper function of bidiReadStatus.
- int cancelBidiJob (BidiWrapperObj *)
  Wrapper function of bidiCancelJob.

7.3.1 Detailed Description

definition of wrapper object for Bidi.

This file defines BidiWrapperObj which is used by any backend program. BidiWrapperObj is an object containing bidiC,bidi module name,XML parser...

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7.3.2 Function Documentation

7.3.2.1 int cancelBidiJob (BidiWrapperObj * *bidiobj*)

Wrapper function of bidiCancelJob.

Parameters:

bidiobj Pointer to BidiWrapperObj.

Return values:

< 0 Fail.

> 0 Success.

7.3.2.2 void deleteBidi (BidiWrapperObj * *bidiobj*)

Wrapper function of bidiDestroy.

Parameters:
bidiobj Pointer to BidiWrapperObj.

Returns:
None.

7.3.2.3 void* deleteBidiObj (BidiWrapperObj * *bidiobj*)

Destructor that delete the BidiWrapperObj.

Parameters:
bidiobj Pointer to BidiWrapperObj.

Returns:
None.

7.3.2.4 int endBidiJob (BidiWrapperObj * *bidiobj*)

Wrapper function of bidiEndJob.

Parameters:
bidiobj Pointer to BidiWrapperObj.

Return values:
< 0 Fail.
> 0 Success.

7.3.2.5 int endBidiRead (BidiWrapperObj * *bidiobj*)

Wrapper function of bidiEndRead.

Parameters:
bidiobj Pointer to BidiWrapperObj.

Return values:
< 0 Fail.
> 0 Success.

7.3.2.6 BidiWrapperObj* initBidi (const char * *PPDfile*, int *FD*, const char * *bidiLang*)

Function for initalize BidiWrapperObj.

Parameters:

PPDfile File path to the PPD file.

FD File descriptor of printer device.

bidiLang Pointer to the language string.

Returns:

Pointer to the new BidiWrapperObj.

7.3.2.7 void initSignal (void)

Initialize signal functions.

7.3.2.8 BidiWrapperObj* newBidiObj (void)

Constructor that creates an empty BidiWrapperObj.

Returns:

Pointer to the initalized BidiWrapperObj.

7.3.2.9 int readBidiStatus (BidiWrapperObj * *bidiobj*)

Wrapper function of bidiReadStatus.

Parameters:

bidiobj Pointer to BidiWrapperObj.

Return values:

$<$ 0 Fail.

$>$ 0 Success.

7.3.2.10 void signal_handler (int *sig*)

Function for signal handler.

7.3.2.11 int startBidiJob (BidiWrapperObj * *bidiobj*, int *jobid*)

Wrapper function of bidiStartJob.

Parameters:

bidiobj Pointer to BidiWrapperObj.

jobid Id number of Job.

Return values:

< 0 Fail.

> 0 Success.

7.3.2.12 int startBidiRead (BidiWrapperObj * *bidiobj*, int *bidiReadMode*)

Wrapper function of bidiStartRead.

Parameters:

bidiobj Pointer to BidiWrapperObj.

bidiReadMode Enum of the Bidi reading mode.

Return values:

< 0 Fail.

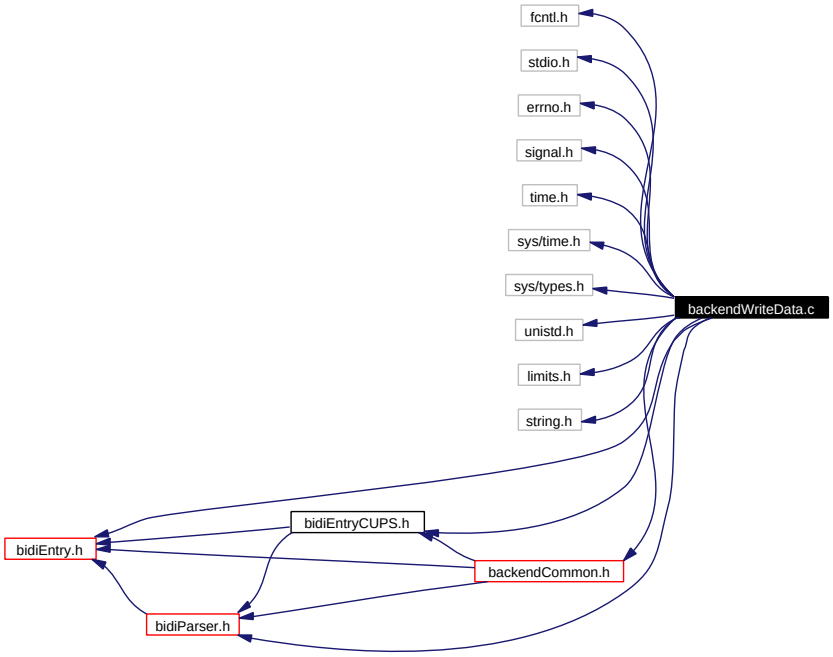
> 0 Success.

7.4 backendWriteData.c File Reference

Functions for outputting print data to printer,fetching printer status from bidi module.

```
#include <fcntl.h>
#include <stdio.h>
#include <errno.h>
#include <signal.h>
#include <time.h>
#include <sys/time.h>
#include <sys/types.h>
#include <unistd.h>
#include <limits.h>
#include <string.h>
#include <bidiEntry.h>
#include <bidiParser.h>
#include <bidiEntryCUPS.h>
#include "backendCommon.h"
```

Include dependency graph for backendWriteData.c:



Defines

- #define STATE_MESG_SIZE 1024
  size of status message buffer.
- #define BIDI_WRITE_TIMEOUT 2
  number of writing data timeout.
- #define DATA_BUF_SIZE (PIPE_BUF)

Functions

- void writeData (BidiWrapperObj *, int, int)
  Function for outputting print data to outFD,fetching printer status from inFD via BidiWrapperObj.

7.4.1 Detailed Description

Functions for outputting print data to printer,fetching printer status from bidi module.

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2004/02/13 Modified by Canon.INC

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1) Modified the select loop to set only the necessary fd into the fdset under each condition.

2) Modified to read the printer status data every interval time.

3) Read the entire printer status data at one select loop.

4) Change the buffer byte size to ”PIPE_BUF”.

5) Set an alarm signal before writing the printer data.

6) Set an appropriate fd into the ”bidiFD”.

7) Set an appropriate timeout value into the select() function.

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7.4.2 Define Documentation

7.4.2.1 #define BIDI_WRITE_TIMEOUT 2

number of writing data timeout.

7.4.2.2 #define DATA_BUF_SIZE (PIPE_BUF)

7.4.2.3 #define STATE_MESG_SIZE 1024

size of status message buffer.

7.4.3 Function Documentation

7.4.3.1 void writeData (BidiWrapperObj * *objBidi*, int *inFD*, int *outFD*)

Function for outputting print data to outFD,fetching printer status from inFD via BidiWrapperObj.

Parameters:

objBidi Pointer to BidiWrapperObject.

inFD File descriptor of input data.

outFD File descriptor of printer device.

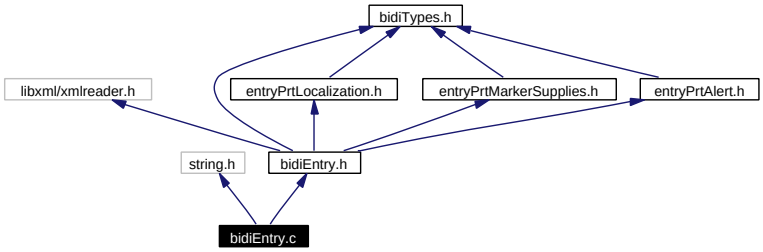
7.5 bidiEntry.c File Reference

Functions for Entry object.

`#include <string.h>`

`#include "bidiEntry.h"`

Include dependency graph for bidiEntry.c:



Functions

- Entry * newEntry (void)

  constructor that creates an empty Entry object.

- void deleteEntry (Entry *self)

  destructor that delete an Entry object.

- char * getIndexName (enumPrtMarkSupIndex index)

  Get color character name from MarkerSuppliesIndex.

7.5.1 Detailed Description

Functions for Entry object.

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2004/02/24 09:06:20

Version Revision
1.10
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7.5.2 Function Documentation

7.5.2.1 void deleteEntry (Entry * *self*)

destructor that delete an Entry object.

Parameters:
self Pointer to Entry object.

7.5.2.2 char* getIndexName (enumPrtMarkSupIndex *index*)

Get color character name from MarkerSuppliesIndex.

Parameters:
index Number of enumPrtMarkSupIndex.

Returns:
Pointer to color character string.

7.5.2.3 Entry* newEntry (void)

constructor that creates an empty Entry object.

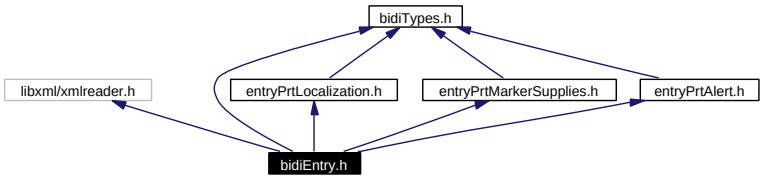
Returns:
Pointer to Entry object.

7.6 bidiEntry.h File Reference

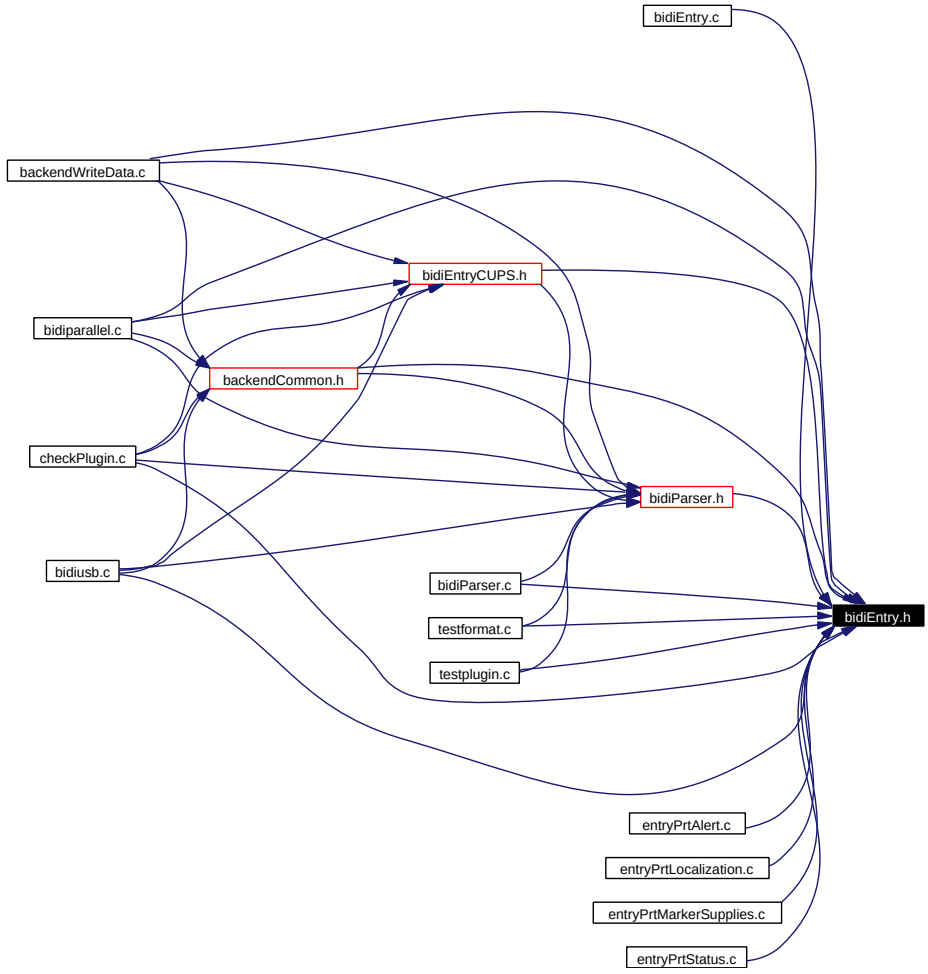
Type definitions for Entry object.

```
#include <libxml/xmlreader.h>
#include <bidiTypes.h>
#include <entryPrtLocalization.h>
#include <entryPrtMarkerSupplies.h>
#include <entryPrtAlert.h>
```

Include dependency graph for bidiEntry.h:



This graph shows which files directly or indirectly include this file:



Compounds

- struct Entry

  The top structure containing the parsed printer status.

- struct enumList

Functions

- Entry * newEntry (void)

  constructor that creates an empty Entry object.

- void deleteEntry (Entry *)

  destructor that delete an Entry object.

- char * getEnumName (const enumList *, const int)
- char * getIndexName (enumPrtMarkSupIndex)

  Get color character name from MarkerSuppliesIndex.

7.6.1 Detailed Description

Type definitions for Entry object.

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2004/02/24 10:00:04

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1.12
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7.6.2 Function Documentation

7.6.2.1 void deleteEntry (Entry * *self*)

destructor that delete an Entry object.

Parameters:
self Pointer to Entry object.

7.6.2.2 char* getEnumName (const enumList *, const *int*)

7.6.2.3 char* getIndexName (enumPrtMarkSupIndex *index*)

Get color character name from MarkerSuppliesIndex.

Parameters:
index Number of enumPrtMarkSupIndex.

Returns:
Pointer to color character string.

7.6.2.4 Entry* newEntry (void)

constructor that creates an empty Entry object.

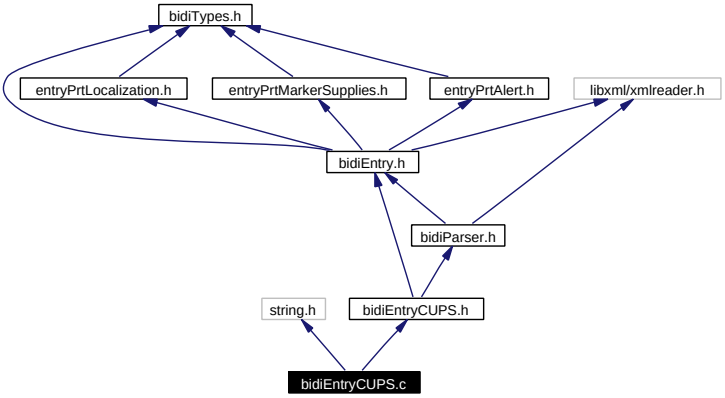
Returns:
Pointer to Entry object.

7.7 bidiEntryCUPS.c File Reference

Functions for infoCUPS object.

```
#include <string.h>
#include "bidiEntryCUPS.h"
```

Include dependency graph for bidiEntryCUPS.c:



Functions

- infoCUPS * makeIPPInfo (Entry *entry)
  Function to make IPP message.

7.7.1 Detailed Description

Functions for infoCUPS object.

Date Date
2004/02/24 10:00:04

Version Revision
1.8
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7.7.2 Function Documentation

7.7.2.1 infoCUPS* makeIPPInfo (Entry * *entry*)

Function to make IPP message.

Parameters:

entry Pointer to Entry object.

Returns:

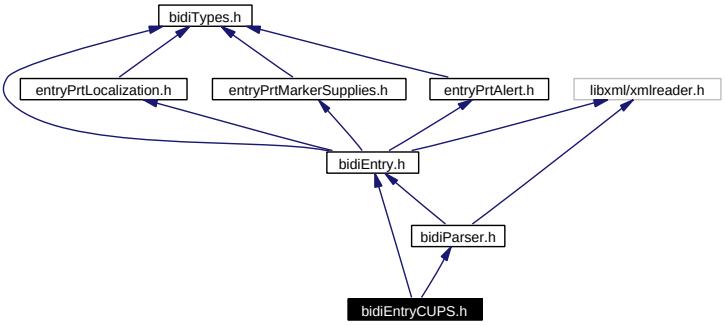
Pointer to inofCUPS object.

7.8 bidiEntryCUPS.h File Reference

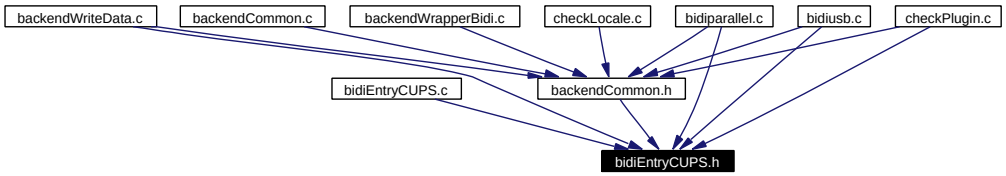
Type definitions for infoCUPS object.

```
#include "bidiEntry.h"
#include "bidiParser.h"
```

Include dependency graph for bidiEntryCUPS.h:



This graph shows which files directly or indirectly include this file:



Compounds

- struct _infoCUPS

Defines

- #define MESG_SIZE 128

Typedefs

- typedef _infoCUPS infoCUPS

Functions

- infoCUPS * makeIPPInfo (Entry *)

Function to make IPP message.

7.8.1 Detailed Description

Type definitions for infoCUPS object.

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2004/02/24 08:56:36

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1.7
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7.8.2 Define Documentation

7.8.2.1 #define MESG_SIZE 128

7.8.3 Typedef Documentation

7.8.3.1 typedef struct _infoCUPS infoCUPS

7.8.4 Function Documentation

7.8.4.1 infoCUPS* makeIPPInfo (Entry * *entry*)

Function to make IPP message.

Parameters:
entry Pointer to Entry object.

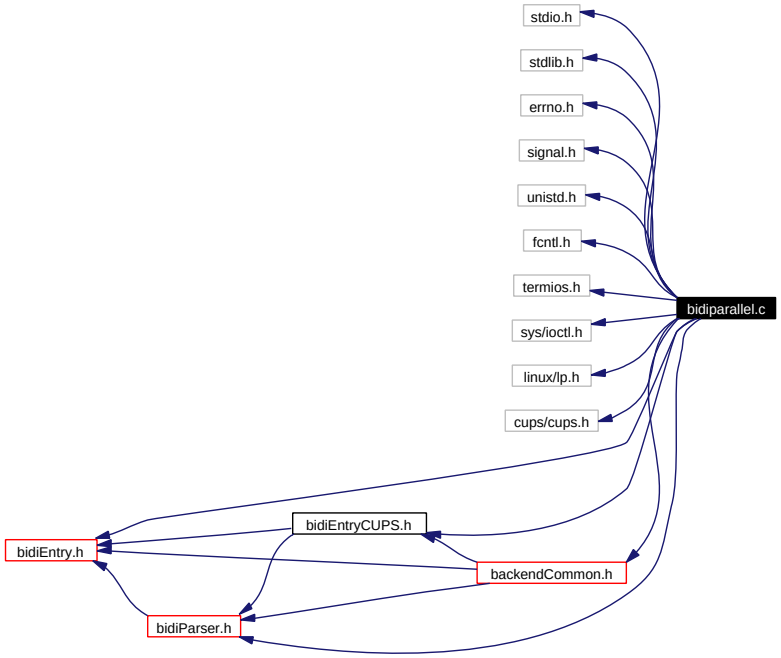
Returns:
Pointer to inofCUPS object.

7.9 bidiparallel.c File Reference

Parallel port backend with bidi status read for the Common UNIX Printing System (CUPS).

```
#include <stdio.h>
#include <stdlib.h>
#include <errno.h>
#include <signal.h>
#include <unistd.h>
#include <fcntl.h>
#include <termios.h>
#include <sys/ioctl.h>
#include <linux/lp.h>
#include <cups/cups.h>
#include "bidiEntry.h"
#include "bidiParser.h"
#include "bidiEntryCUPS.h"
#include "backendCommon.h"
```

Include dependency graph for bidiparallel.c:



Defines

- #define strlcpy cups_strlcpy
- #define strlcat cups_strlcat
- #define PARALLEL_NAME "bidiparallel"
- #define IOCNR_GET_DEVICE_ID 1
- #define LPIOC_GET_DEVICE_ID(len) _IOC(_IOC_READ, 'P', IOCNR_GET_DEVICE_ID, len)

Functions

- size_t cups_strlcpy (char *, const char *, size_t)
- size_t cups_strlcat (char *, const char *, size_t)
- void list_devices (void)

  Function for List devices coneected with parallel port.

- int main (int argc, char **argv)

  main function for bidiparallel program

7.9.1 Detailed Description

Parallel port backend with bidi status read for the Common UNIX Printing System (CUPS).

Parallel backend program send print data to printer and fetch printer status from bidi object.

Date Date
2004/02/24 08:56:36

Version Revision
1.19

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7.9.2 Define Documentation

7.9.2.1 #define IOCNR_GET_DEVICE_ID 1

7.9.2.2 #define LPIOC_GET_DEVICE_ID(len) _IOC(_IOC_READ, 'P', IOCNR_GET_DEVICE_ID, len)

7.9.2.3 #define PARALLEL_NAME "bidiparallel"

7.9.2.4 #define strlcat cups_strlcat

7.9.2.5 #define strlcpy cups_strlcpy

7.9.3 Function Documentation

7.9.3.1 size_t cups_strlcat (char *, const char *, size_t)

7.9.3.2 size_t cups_strlcpy (char *, const char *, size_t)

7.9.3.3 void list_devices (void)

Function for List devices coneected with parallel port.

Returns:
None.

7.9.3.4 int main (int *argc*, char ** *argv*)

main function for bidiparallel program

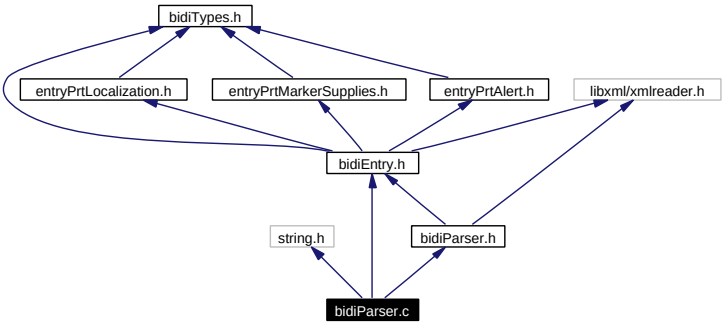
Parameters:
argc Number of argument.
argv Pointer to argument.

7.10 bidiParser.c File Reference

Functions for Parser object.

```
#include <string.h>
#include "bidiEntry.h"
#include "bidiParser.h"
```

Include dependency graph for bidiParser.c:



Functions

- Parser * newParser (void)

  constructor that creates an empty Parser object.

- void deleteParser (Parser *self)

  destructor that delete Parser object.

- int parseParserFromFile (Parser *self, const char *uri)

  parse from file which is written in Bi-di format.

- int parseParserFromFd (Parser *self, int fd)

  parse from file descriptor which is written in Bi-di format.

- int parseParserFromBuff (Parser *self, const char *buffer, int size)

  parse from memeory which is written in Bi-di format.

- Entry * fetchEntryFromParser (Parser *parser)

  Function for fetch entry object.

7.10.1 Detailed Description

Functions for Parser object.

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Version Revision
1.13
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7.10.2 Function Documentation

7.10.2.1 void deleteParser (Parser * *self*)

destructor that delete Parser object.

Parameters:
self Pointer to Parser object.

7.10.2.2 Entry* fetchEntryFromParser (Parser * *parser*)

Function for fetch entry object.

Parameters:
parser Pointer to Parser object.

Return values:
NULL Fail
**Entry* Success

7.10.2.3 Parser* newParser (void)

constructor that creates an empty Parser object.

Returns:
Pointer to Parser object.

7.10.2.4 int parseParserFromBuff (Parser * *self*, const char * *buffer*, int *size*)

parse from memeory which is written in Bi-di format.

Parameters:
self Pointer to Parser object.

buffer Pointer to parse buffer.

size Number in bytes of parse buffer.

Return values:

-1 Fail.

0 Success.

7.10.2.5 int parseParserFromFd (Parser * *self*, int *fd*)

parse from file descriptor which is written in Bi-di format.

Parameters:

self Pointer to Parser object.

fd File descriptor of parse file.

Return values:

-1 Fail.

0 Success.

7.10.2.6 int parseParserFromFile (Parser * *self*, const char * *uri*)

parse from file which is written in Bi-di format.

Parameters:

self Pointer to Parser object.

uri Pointer to parse uri.

Return values:

-1 Fail.

0 Success.

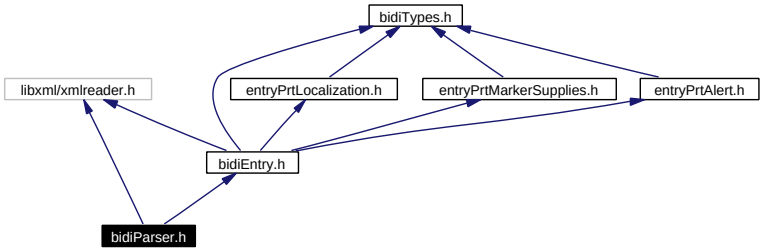
7.11 bidiParser.h File Reference

Type definitions for Parser object.

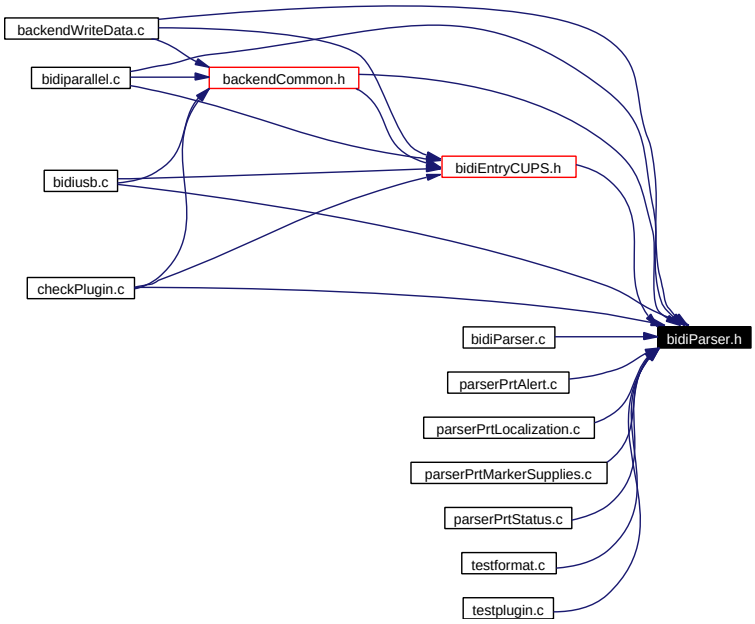
`#include <libxml/xmlreader.h>`

`#include <bidiEntry.h>`

Include dependency graph for bidiParser.h:



This graph shows which files directly or indirectly include this file:



Compounds

- struct Parser

Structure for parser which parse printer status written in XML format.

Enumerations

- enum State {
  STATE_START = 0, STATE_PRINTER_MIB, STATE_LOC_TABLE, STATE_LOC_ENTRY,
  STATE_LOC_LANG, STATE_LOC_CHARSET, STATE_MRKSUP_TABLE, STATE_MRKSUP_ENTRY,
  STATE_MRKSUP_INDEX, STATE_MRKSUP_TYPE, STATE_MRKSUP_DESCRIPTION, STATE_MRKSUP_SUPPLYUNIT,
  STATE_MRKSUP_MAXCAPACITY, STATE_MRKSUP_LEVEL, STATE_ALT_TABLE, STATE_ALT_ENTRY,
  STATE_ALT_SEVERITYLEVEL, STATE_ALT_GROUP, STATE_ALT_GROUPINDEX, STATE_ALT_CODE,
  STATE_ALT_DESCRIPTION }
  .

Functions

- Parser * newParser (void)
  constructor that creates an empty Parser object.
- void deleteParsery (Parser *)
- int parseParser (Parser *, const char *)
- Entry * fetchEntryFromParser (Parser *)
  Function for fetch entry object.
- int parseParserFromFile (Parser *, const char *)
  parse from file which is written in Bi-di format.
- int parseParserFromFd (Parser *, int)
  parse from file descriptor which is written in Bi-di format.
- int parseParserFromBuff (Parser *, const char *, int)
  parse from memeory which is written in Bi-di format.

7.11.1 Detailed Description

Type definitions for Parser object.

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1.12
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7.11.2 Enumeration Type Documentation

7.11.2.1 enum State

.

Enumerate types used in Parser object.

Enumeration values:

STATE_START

STATE_PRINTER_MIB

STATE_LOC_TABLE

STATE_LOC_ENTRY

STATE_LOC_LANG

STATE_LOC_CHARSET

STATE_MRKSUP_TABLE

STATE_MRKSUP_ENTRY

STATE_MRKSUP_INDEX

STATE_MRKSUP_TYPE

STATE_MRKSUP_DESCRIPTION

STATE_MRKSUP_SUPPLYUNIT

STATE_MRKSUP_MAXCAPACITY

STATE_MRKSUP_LEVEL

STATE_ALT_TABLE

STATE_ALT_ENTRY

STATE_ALT_SEVERITYLEVEL

STATE_ALT_GROUP

STATE_ALT_GROUPINDEX

STATE_ALT_CODE

STATE_ALT_DESCRIPTION

7.11.3 Function Documentation

7.11.3.1 void deleteParsery (Parser *)

7.11.3.2 Entry* fetchEntryFromParser (Parser * *parser*)

Function for fetch entry object.

Parameters:
parser Pointer to Parser object.

Return values:
NULL Fail
**Entry* Success

7.11.3.3 Parser* newParser (void)

constructor that creates an empty Parser object.

Returns:
Pointer to Parser object.

7.11.3.4 int parseParser (Parser *, const char *)

7.11.3.5 int parseParserFromBuff (Parser * *self*, const char * *buffer*, int *size*)

parse from memeory which is written in Bi-di format.

Parameters:
self Pointer to Parser object.
buffer Pointer to parse buffer.
size Number in bytes of parse buffer.

Return values:
-1 Fail.
0 Success.

7.11.3.6 int parseParserFromFd (Parser * *self*, int *fd*)

parse from file descriptor which is written in Bi-di format.

Parameters:
self Pointer to Parser object.
fd File descriptor of parse file.

Return values:

-1 Fail.

0 Success.

7.11.3.7 int parseParserFromFile (Parser * *self*, const char * *uri*)

parse from file which is written in Bi-di format.

Parameters:

self Pointer to Parser object.

uri Pointer to parse uri.

Return values:

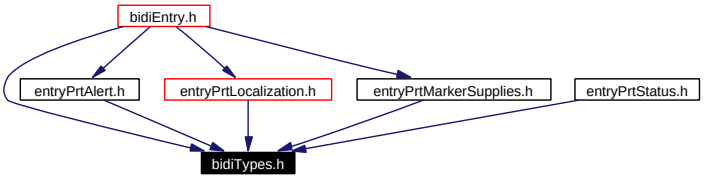
-1 Fail.

0 Success.

7.12 bidiTypes.h File Reference

Type definitions of the valiable used by Printer-MIB.

This graph shows which files directly or indirectly include this file:



Typedefs

- typedef long INT32

  Integer32.

- typedef unsigned char OSTRING

  OCTET STRING.

- typedef int CCHARSET

  CodedCharset.

- typedef char SUBUNITSTATUS

  SubUnitStatus.

7.12.1 Detailed Description

Type definitions of the valiable used by Printer-MIB.

Date Date
2004/02/24 08:56:36

Version Revision
1.7
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7.12.2 Typedef Documentation

7.12.2.1 typedef int CCHARSET

CodedCharset.

7.12.2.2 typedef long INT32

Integer32.

7.12.2.3 typedef unsigned char OSTRING

OCTET STRING.

7.12.2.4 typedef char SUBUNITSTATUS

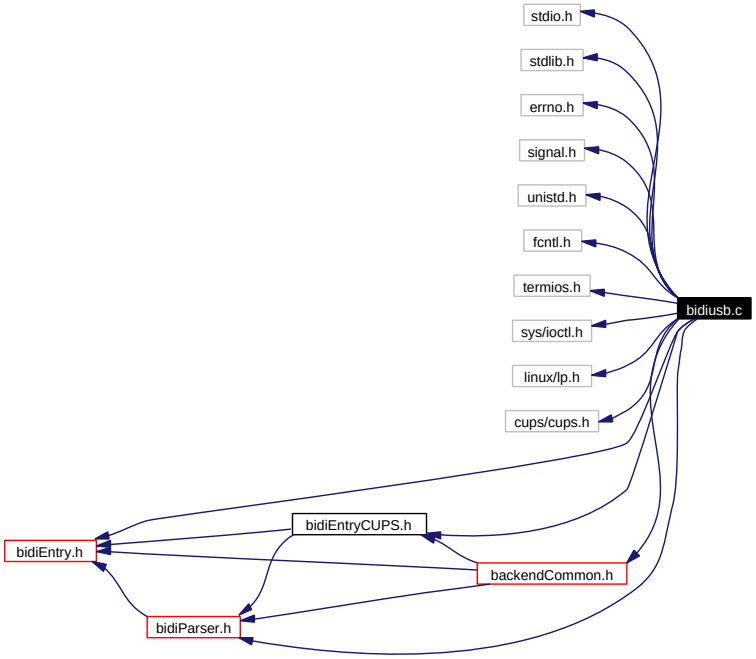
SubUnitStatus.

7.13 bidiusb.c File Reference

USB port backend with bidi status read for the Common UNIX Printing System (CUPS).

```
#include <stdio.h>
#include <stdlib.h>
#include <errno.h>
#include <signal.h>
#include <unistd.h>
#include <fcntl.h>
#include <termios.h>
#include <sys/ioctl.h>
#include <linux/lp.h>
#include <cups/cups.h>
#include "bidiEntry.h"
#include "bidiParser.h"
#include "bidiEntryCUPS.h"
#include "backendCommon.h"
```

Include dependency graph for bidiusb.c:



Defines

- #define strlcpy cups_strlcpy
  safe string copy.
- #define strlcat cups_strlcat
  safe string concatenation.
- #define USB_NAME "bidiusb"
  program name.
- #define IOCNR_GET_DEVICE_ID 1
- #define LPIOC_GET_DEVICE_ID(len) _IOC(_IOC_READ, 'P', IOCNR_GET_DEVICE_ID, len)
  ioctl macro to get device_id string.

Functions

- size_t cups_strlcpy (char *, const char *, size_t)
- size_t cups_strlcat (char *, const char *, size_t)
- void decode_device_id (int port, const char *device_id, char *make_model, int mmsize, char *uri, int urisize)
  Decode the IEEE-1284 device ID string.
- void list_devices (void)
  Function for List all USB devices.
- int open_device (const char *uri)
  Function for Open a USB device...
- int main (int argc, char **argv)
  main function for bidiusb program

7.13.1 Detailed Description

USB port backend with bidi status read for the Common UNIX Printing System (CUPS).

USB backend program send print data to printer and fetch printer status from bidi object.

Date **Date**
2004/02/24 08:56:36

Version **Revision**
1.28

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7.13.2 Define Documentation

7.13.2.1 #define IOCNR_GET_DEVICE_ID 1

7.13.2.2 #define LPIOC_GET_DEVICE_ID(len) _IOC(_IOC_READ, 'P', IOCNR_GET_DEVICE_ID, len)

ioctl macro to get device_id string.

7.13.2.3 #define strlcat cups_strlcat

safe string concatenation.

7.13.2.4 #define strlcpy cups_strlcpy

safe string copy.

7.13.2.5 #define USB_NAME "bidiusb"

program name.

7.13.3 Function Documentation

7.13.3.1 size_t cups_strlcat (char *, const char *, size_t)

7.13.3.2 size_t cups_strlcpy (char *, const char *, size_t)

7.13.3.3 void decode_device_id (int *port*, const char * *device_id*, char * *make_model*, int *mmsize*, char * *uri*, int *urisize*)

Decode the IEEE-1284 device ID string.

Parameters:

port Port number.

device_id 1284 device ID string.

make_model model name.

mmsize Size of buffer.

uri Device URI.

urisize Size of buffer.

Returns:
None.

7.13.3.4 void list_devices (void)

Function for List all USB devices.

Returns:
None.

7.13.3.5 int main (int *argc*, char ** *argv*)

main function for bidiusb program

Parameters:
argc Number of argument.

argv Pointer to argument.

7.13.3.6 int open_device (const char * *uri*)

Function for Open a USB device...

Parameters:
uri Pointer to open device string.

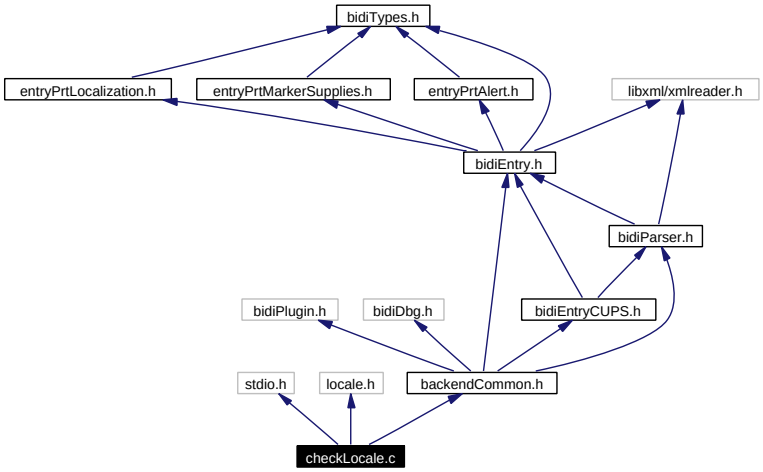
Return values:
$>$ 0 Opened device descriptor

$<$ 0 Fail

7.14 checkLocale.c File Reference

```
#include <stdio.h>
#include <locale.h>
#include "backendCommon.h"
```

Include dependency graph for checkLocale.c:



Functions

- int main (int argc, char **argv)

7.14.1 Function Documentation

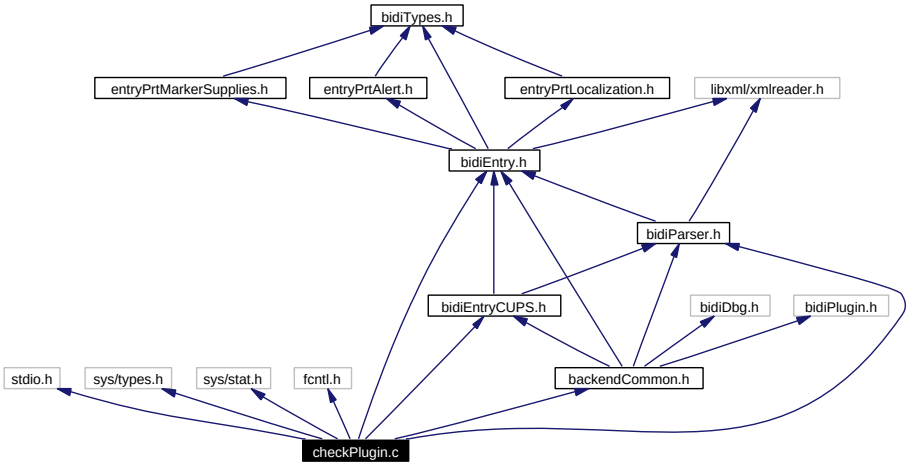
7.14.1.1 int main (int *argc*, char ** *argv*)

7.15 checkPlugin.c File Reference

test program for communicating with Bidi module.

```
#include <stdio.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <fcntl.h>
#include <bidiEntry.h>
#include <bidiParser.h>
#include <bidiEntryCUPS.h>
#include "backendCommon.h"
```

Include dependency graph for checkPlugin.c:



Functions

- int main (int argc, char **argv)

7.15.1 Detailed Description

test program for communicating with Bidi module.

Usage: checkPlugin [printer device file] [PPD file]

Date Date

2004/02/24 08:56:36

Version
Revision 1.5

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7.15.2 Function Documentation

7.15.2.1 int main (int *argc*, char ** *argv*)

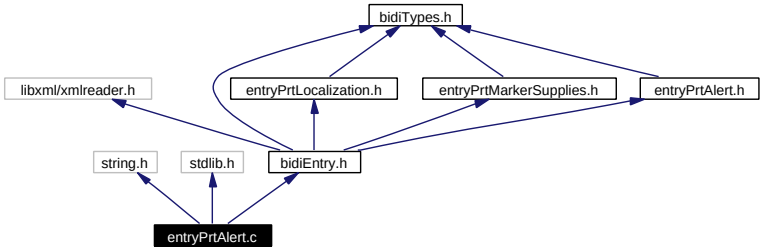
7.16 Doxyheader File Reference

7.17 entryPrtAlert.c File Reference

functions of EntryPrtAlert object.

```
#include <string.h>
#include <stdlib.h>
#include "bidiEntry.h"
```

Include dependency graph for entryPrtAlert.c:



Functions

- EntryPrtAlert * newEntryPrtAlert (void)

  constructor that creates an empty EntryPrtAlert object.

- void deleteEntryPrtAlt (EntryPrtAlert *self)

  destructor that delete EntryPrtAlert object.

- EntryPrtAlert * addEntryPrtAlt (EntryPrtAlert *self)

  Function to make new EntryPrtAlert object.

- void setEntryPrtAlt (EntryPrtAlert *entPrtAlt, xmlChar *node_name, xmlChar *data)

  Function to set data to EntryPrtAlert object.

7.17.1 Detailed Description

functions of EntryPrtAlert object.

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2004/02/24 09:06:20

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7.17.2 Function Documentation

7.17.2.1 EntryPrtAlert* addEntryPrtAlt (EntryPrtAlert * *self*)

Function to make new EntryPrtAlert object.

Parameters:
self Pointer to EntryPrtAlert object

Return values:
NULL Fail
**EntryPrtAlert* Success

7.17.2.2 void deleteEntryPrtAlt (EntryPrtAlert * *self*)

destructor that delete EntryPrtAlert object.

Parameters:
self Pointer to EntryPrtAlert object

7.17.2.3 EntryPrtAlert* newEntryPrtAlert (void)

constructor that creates an empty EntryPrtAlert object.

Return values:
NULL Fail
**EntryPrtAlert* Success

7.17.2.4 void setEntryPrtAlt (EntryPrtAlert * *entPrtAlt*, xmlChar * *node_name*, xmlChar * *data*)

Function to set data to EntryPrtAlert object.

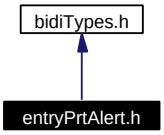
Parameters:
entPrtAlt Pointer to EntryPrtAlert object
node_name Pointer to node name string
data Pointer to data string

7.18 entryPrtAlert.h File Reference

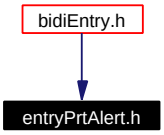
Type definitions of EntryPrtAlert object.

`#include <bidiTypes.h>`

Include dependency graph for entryPrtAlert.h:



This graph shows which files directly or indirectly include this file:



Compounds

- struct _EntryPrtAlert

Typedefs

- typedef _EntryPrtAlert EntryPrtAlert

Enumerations

- enum enumPrtAltGrpIndex { PRTALT_INDEX_C = 1, PRTALT_INDEX_M = 2, PRTALT_INDEX_Y = 3, PRTALT_INDEX_K = 4 }

  PrtAlertGroupIndex enumeration .

- enum enumPrtAltSevLevel { PRTALT_SEVLEV_OTHER = 1, PRTALT_SEVLEV_CRITICAL = 3, PRTALT_SEVLEV_WARNING = 4 }

  PrtAlertSeverityLevel enumeration .

- enum enumPrtAltGrp {

  PRTALT_GRP_OTHER = 1, PRTALT_GRP_HR_MIB_STORAGE_T = 3, PRTALT_GRP_HR_MIB_DEVICE_T = 4, PRTALT_GRP_GENERAL_PRINTER = 5,

  PRTALT_GRP_COVER = 6, PRTALT_GRP_LOCALIZATION = 7, PRTALT_GRP_INPUT = 8, PRTALT_GRP_OUTPUT = 9,

PRTALT_GRP_MARKER = 10, PRTALT_GRP_MARKER_SUPPLIES = 11, PRTALT_GRP_MARKER_COLORANT = 12, PRTALT_GRP_MEDIA_PATH = 13,

PRTALT_GRP_CHANNEL = 14, PRTALT_GRP_INTERPRETER = 15, PRTALT_GRP_CONSOLE_DISP_BUFFER = 16, PRTALT_GRP_CONTENT_LENGTH = 17 }

PrtAlertGroup enumeration .

- enum enumPrtAltCode {

  PRTALT_CODE_OTHER = 1, PRTALT_CODE_UNKNOWN = 2, PRTALT_CODE_COVER_OPEN = 3, PRTALT_CODE_COVER_CLOSED = 4,

  PRTALT_CODE_INTLOCK_OPEN = 5, PRTALT_CODE_INTLOCK_CLOSED = 6, PRTALT_CODE_CONFIG_CHANGED = 7, PRTALT_CODE_JAM = 8,

  PRTALT_CODE_DOOR_OPEN = 501, PRTALT_CODE_DOOR_CLOSED = 502, PRTALT_CODE_POWER_UP = 503, PRTALT_CODE_POWER_DOWN = 504,

  PRTALT_CODE_INPUT_MEDIASUPP_EMPTY = 808, PRTALT_CODE_IKN_EMPTY = 1102, PRTALT_CODE_IKN_ALMOST_EMPTY = 1105 }

  PrtAlertCode enumeration..

Functions

- EntryPrtAlert * newEntryPrtAlert (void)

  constructor that creates an empty EntryPrtAlert object.

- void deleteEntryPrtAlt (EntryPrtAlert *)

  destructor that delete EntryPrtAlert object.

- EntryPrtAlert * addEntryPrtAlt (EntryPrtAlert *)

  Function to make new EntryPrtAlert object.

- void setEntryPrtAlt (EntryPrtAlert *, xmlChar *, xmlChar *)

  Function to set data to EntryPrtAlert object.

7.18.1 Detailed Description

Type definitions of EntryPrtAlert object.

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7.18.2 Typedef Documentation

7.18.2.1 typedef struct _EntryPrtAlert EntryPrtAlert

7.18.3 Enumeration Type Documentation

7.18.3.1 enum enumPrtAltCode

PrtAlertCode enumeration..

Enumeration values:

- **PRTALT_CODE_OTHER**
- **PRTALT_CODE_UNKNOWN**
- **PRTALT_CODE_COVER_OPEN**
- **PRTALT_CODE_COVER_CLOSED**
- **PRTALT_CODE_INTLOCK_OPEN**
- **PRTALT_CODE_INTLOCK_CLOSED**
- **PRTALT_CODE_CONFIG_CHANGED**
- **PRTALT_CODE_JAM**
- **PRTALT_CODE_DOOR_OPEN**
- **PRTALT_CODE_DOOR_CLOSED**
- **PRTALT_CODE_POWER_UP**
- **PRTALT_CODE_POWER_DOWN**
- **PRTALT_CODE_INPUT_MEDIASUPP_EMPTY**
- **PRTALT_CODE_IKN_EMPTY**
- **PRTALT_CODE_IKN_ALMOST_EMPTY**

7.18.3.2 enum enumPrtAltGrp

PrtAlertGroup enumeration .

Enumeration values:

- **PRTALT_GRP_OTHER**
- **PRTALT_GRP_HR_MIB_STORAGE_T**
- **PRTALT_GRP_HR_MIB_DEVICE_T**
- **PRTALT_GRP_GENERAL_PRINTER**
- **PRTALT_GRP_COVER**
- **PRTALT_GRP_LOCALIZATION**
- **PRTALT_GRP_INPUT**
- **PRTALT_GRP_OUTPUT**
- **PRTALT_GRP_MARKER**
- **PRTALT_GRP_MARKER_SUPPLIES**

PRTALT_GRP_MARKER_COLORANT

PRTALT_GRP_MEDIA_PATH

PRTALT_GRP_CHANNEL

PRTALT_GRP_INTERPRETER

PRTALT_GRP_CONSOLE_DISP_BUFFER

PRTALT_GRP_CONTENT_LENGTH

7.18.3.3 enum enumPrtAltGrpIndex

PrtAlertGroupIndex enumeration .

Enumeration values:

PRTALT_INDEX_C

PRTALT_INDEX_M

PRTALT_INDEX_Y

PRTALT_INDEX_K

7.18.3.4 enum enumPrtAltSevLevel

PrtAlertSeverityLevel enumeration .

Enumeration values:

PRTALT_SEVLEV_OTHER

PRTALT_SEVLEV_CRITICAL

PRTALT_SEVLEV_WARNING

7.18.4 Function Documentation

7.18.4.1 EntryPrtAlert* addEntryPrtAlt (EntryPrtAlert * *self*)

Function to make new EntryPrtAlert object.

Parameters:

self Pointer to EntryPrtAlert object

Return values:

NULL Fail

**EntryPrtAlert* Success

7.18.4.2 void deleteEntryPrtAlt (EntryPrtAlert * *self*)

destructor that delete EntryPrtAlert object.

Parameters:

self Pointer to EntryPrtAlert object

7.18.4.3 EntryPrtAlert* newEntryPrtAlert (void)

constructor that creates an empty EntryPrtAlert object.

Return values:

NULL Fail

**EntryPrtAlert* Success

7.18.4.4 void setEntryPrtAlt (EntryPrtAlert * *entPrtAlt*, xmlChar * *node_name*, xmlChar * *data*)

Function to set data to EntryPrtAlert object.

Parameters:

entPrtAlt Pointer to EntryPrtAlert object

node_name Pointer to node name string

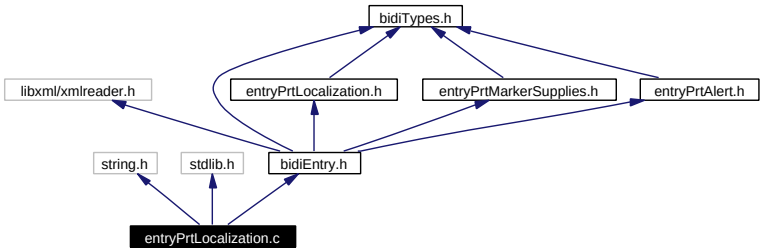
data Pointer to data string

7.19 entryPrtLocalization.c File Reference

functions of EntryPrtLocalization object.

```
#include <string.h>
#include <stdlib.h>
#include "bidiEntry.h"
```

Include dependency graph for entryPrtLocalization.c:



Functions

- EntryPrtLocalization * newEntryPrtLoc (void)

  constructor that creates an empty EntryPrtLocalization object.

- void deleteEntryPrtLoc (EntryPrtLocalization *self)

  destructor that delete EntryPrtLocalization object.

- void setEntryPrtLoc (EntryPrtLocalization *newentry, xmlChar *node_name, xmlChar *data)

  Function to set data to EntryPrtLocalization object.

7.19.1 Detailed Description

functions of EntryPrtLocalization object.

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7.19.2 Function Documentation

7.19.2.1 void deleteEntryPrtLoc (EntryPrtLocalization * *self*)

destructor that delete EntryPrtLocalization object.

Parameters:

self Pointer to EntryPrtLocalization object

7.19.2.2 EntryPrtLocalization* newEntryPrtLoc (void)

constructor that creates an empty EntryPrtLocalization object.

Returns:

Pointer to EntryPrtLocalization object

7.19.2.3 void setEntryPrtLoc (EntryPrtLocalization * *newentry*, xmlChar * *node_name*, xmlChar * *data*)

Function to set data to EntryPrtLocalization object.

Parameters:

newentry Pointer to EntryPrtLocalization object

node_name Pointer to node name string

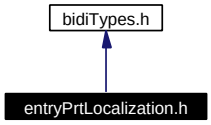
data Pointer to data string

7.20 entryPrtLocalization.h File Reference

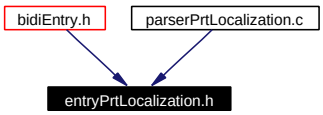
Type definitons of EntryPrtLocalization object.

`#include <bidiTypes.h>`

Include dependency graph for entryPrtLocalization.h:



This graph shows which files directly or indirectly include this file:



Compounds

- struct EntryPrtLocalization

  The structure that containing the PrtLocalizatonEntry messages.

Functions

- EntryPrtLocalization * newEntryPrtLoc (void)

  constructor that creates an empty EntryPrtLocalization object.

- void deleteEntryPrtLoc (EntryPrtLocalization *)

  destructor that delete EntryPrtLocalization object.

- void setEntryPrtLoc (EntryPrtLocalization *, xmlChar *, xmlChar *)

  Function to set data to EntryPrtLocalization object.

7.20.1 Detailed Description

Type definitons of EntryPrtLocalization object.

Date Date

2004/02/24 10:00:04

Version
Revision 1.8
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7.20.2 Function Documentation

7.20.2.1 void deleteEntryPrtLoc (EntryPrtLocalization * *self*)

destructor that delete EntryPrtLocalization object.

Parameters:
self Pointer to EntryPrtLocalization object

7.20.2.2 EntryPrtLocalization* newEntryPrtLoc (void)

constructor that creates an empty EntryPrtLocalization object.

Returns:
Pointer to EntryPrtLocalization object

7.20.2.3 void setEntryPrtLoc (EntryPrtLocalization * *newentry*, xmlChar * *node_name*, xmlChar * *data*)

Function to set data to EntryPrtLocalization object.

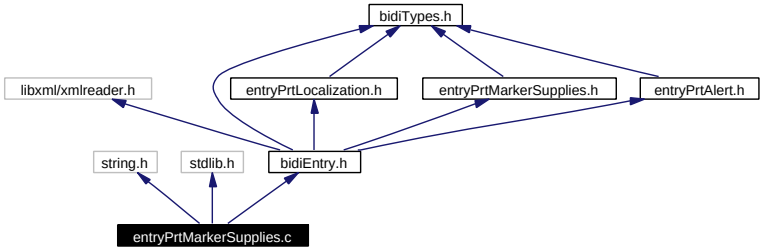
Parameters:
newentry Pointer to EntryPrtLocalization object
node_name Pointer to node name string
data Pointer to data string

7.21 entryPrtMarkerSupplies.c File Reference

functions of EntryPrtMarkerSupplies object.

```
#include <string.h>
#include <stdlib.h>
#include "bidiEntry.h"
```

Include dependency graph for entryPrtMarkerSupplies.c:



Functions

- EntryPrtMarkerSupplies * newEntryPrtMarkSupp (void)

  constructor that creates an empty EntryPrtMarkerSupplies object.

- void deleteEntryPrtMarkSupp (EntryPrtMarkerSupplies *self)

  destructor that delete EntryPrtMarkerSupplies object.

- EntryPrtMarkerSupplies * addEntryPrtMarkSupp (EntryPrtMarkerSupplies *self)

  Function to make new EntryPrtMarkerSupplies object.

- void setEntryPrtMarkSupp (EntryPrtMarkerSupplies *entPrtMrkSup, xmlChar *node_name, xmlChar *data)

  Function to set data to EntryPrtMarkerSupplies object.

7.21.1 Detailed Description

functions of EntryPrtMarkerSupplies object.

Date Date
2004/02/24 09:06:20

Version Revision
1.8
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7.21.2 Function Documentation

7.21.2.1 EntryPrtMarkerSupplies* addEntryPrtMarkSupp (EntryPrtMarkerSupplies * *self*)

Function to make new EntryPrtMarkerSupplies object.

Parameters:

self Pointer to EntryPrtMarkerSupplies object

Return values:

NULL Fail

**EntryPrtMarkerSupplies* Success

7.21.2.2 void deleteEntryPrtMarkSupp (EntryPrtMarkerSupplies * *self*)

destructor that delete EntryPrtMarkerSupplies object.

Parameters:

self Pointer to EntryPrtMarkerSupplies object

7.21.2.3 EntryPrtMarkerSupplies* newEntryPrtMarkSupp (void)

constructor that creates an empty EntryPrtMarkerSupplies object.

Return values:

NULL Fail

**EntryPrtMarkerSupplies* Success

7.21.2.4 void setEntryPrtMarkSupp (EntryPrtMarkerSupplies * *entPrtMrkSup*, xmlChar * *node_name*, xmlChar * *data*)

Function to set data to EntryPrtMarkerSupplies object.

Parameters:

entPrtMrkSup Pointer to EntryPrtMarkerSupplies object

node_name Pointer to node name string

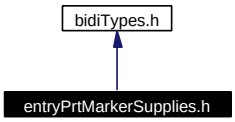
data Pointer to data string

7.22 entryPrtMarkerSupplies.h File Reference

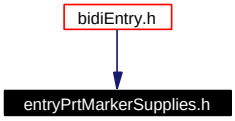
Type definitions for EntryPrtMarkerSupplies object.

`#include <bidiTypes.h>`

Include dependency graph for entryPrtMarkerSupplies.h:



This graph shows which files directly or indirectly include this file:



Compounds

- struct _EntryPrtMarkerSupplies

Typedefs

- typedef _EntryPrtMarkerSupplies EntryPrtMarkerSupplies

Enumerations

- enum enumPrtMarkSupIndex { PRTMARK_INDEX_C = 1, PRTMARK_INDEX_M = 2, PRTMARK_INDEX_Y = 3, PRTMARK_INDEX_K = 4 }

  PrtMarkerSuppliesIndex enumeration..

- enum enumPrtMarkSupType {

  PRTMARK_SUPTYPE_OTHER = 1, PRTMARK_SUPTYPE_UNKNOWN = 2, PRTMARK_SUPTYPE_TONER = 3, PRTMARK_SUPTYPE_WASTE_TONNER = 4,

  PRTMARK_SUPTYPE_INK = 5, PRTMARK_SUPTYPE_INK_CARTRIDGE = 6, PRTMARK_SUPTYPE_INK_RIBON = 7, PRTMARK_SUPTYPE_WASTE_INK = 8,

  PRTMARK_SUPTYPE_OPC = 9, PRTMARK_SUPTYPE_DEVELOPER = 10, PRTMARK_SUPTYPE_FUSER_OIL = 11, PRTMARK_SUPTYPE_SOLID_WAX = 12,

  PRTMARK_SUPTYPE_RIBBON_WAX = 13, PRTMARK_SUPTYPE_WASTE_WAX = 14 }

  PrtMarkerSuppliesType enumeration..

- enum enumPrtMarkSupSupUnit {

  PRTMARK_SUPUNIT_INCH = 3, PRTMARK_SUPUNIT_MICRO_METER = 4, PRTMARK_SUPUNIT_OUNCE = 12, PRTMARK_SUPUNIT_GRAM = 13,

  PRTMARK_SUPUNIT_FLUID_OUNCE = 14, PRTMARK_SUPUNIT_MILI_LITER = 15, PRTMARK_SUPUNIT_PERCENT = 19 }

  PrtMarkerSuppliesSupplyUnit enumeration..

Functions

- EntryPrtMarkerSupplies * newEntryPrtMarkSupp (void)

  constructor that creates an empty EntryPrtMarkerSupplies object.

- void deleteEntryPrtMarkSupp (EntryPrtMarkerSupplies *)

  destructor that delete EntryPrtMarkerSupplies object.

- EntryPrtMarkerSupplies * addEntryPrtMarkSupp (EntryPrtMarkerSupplies *)

  Function to make new EntryPrtMarkerSupplies object.

- void setEntryPrtMarkSupp (EntryPrtMarkerSupplies *, xmlChar *, xmlChar *)

  Function to set data to EntryPrtMarkerSupplies object.

7.22.1 Detailed Description

Type definitions for EntryPrtMarkerSupplies object.

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7.22.2 Typedef Documentation

7.22.2.1 typedef struct _EntryPrtMarkerSupplies EntryPrtMarkerSupplies

7.22.3 Enumeration Type Documentation

7.22.3.1 enum enumPrtMarkSupIndex

PrtMarkerSuppliesIndex enumeration..

Enumeration values:

PRTMARK_INDEX_C

PRTMARK_INDEX_M

PRTMARK_INDEX_Y

PRTMARK_INDEX_K

7.22.3.2 enum enumPrtMarkSupSupUnit

PrtMarkerSuppliesSupplyUnit enumeration..

Enumeration values:

PRTMARK_SUPUNIT_INCH

PRTMARK_SUPUNIT_MICRO_METER

PRTMARK_SUPUNIT_OUNCE

PRTMARK_SUPUNIT_GRAM

PRTMARK_SUPUNIT_FLUID_OUNCE

PRTMARK_SUPUNIT_MILI_LITER

PRTMARK_SUPUNIT_PERCENT

7.22.3.3 enum enumPrtMarkSupType

PrtMarkerSuppliesType enumeration..

Enumeration values:

PRTMARK_SUPTYPE_OTHER

PRTMARK_SUPTYPE_UNKNOWN

PRTMARK_SUPTYPE_TONER

PRTMARK_SUPTYPE_WASTE_TONNER

PRTMARK_SUPTYPE_INK

PRTMARK_SUPTYPE_INK_CARTRIDGE

PRTMARK_SUPTYPE_INK_RIBON

PRTMARK_SUPTYPE_WASTE_INK

PRTMARK_SUPTYPE_OPC

PRTMARK_SUPTYPE_DEVELOPER

PRTMARK_SUPTYPE_FUSER_OIL

PRTMARK_SUPTYPE_SOLID_WAX

PRTMARK_SUPTYPE_RIBBON_WAX

PRTMARK_SUPTYPE_WASTE_WAX

7.22.4 Function Documentation

7.22.4.1 EntryPrtMarkerSupplies* addEntryPrtMarkSupp (EntryPrtMarkerSupplies * *self*)

Function to make new EntryPrtMarkerSupplies object.

Parameters:

self Pointer to EntryPrtMarkerSupplies object

Return values:

NULL Fail

**EntryPrtMarkerSupplies* Success

7.22.4.2 void deleteEntryPrtMarkSupp (EntryPrtMarkerSupplies * *self*)

destructor that delete EntryPrtMarkerSupplies object.

Parameters:

self Pointer to EntryPrtMarkerSupplies object

7.22.4.3 EntryPrtMarkerSupplies* newEntryPrtMarkSupp (void)

constructor that creates an empty EntryPrtMarkerSupplies object.

Return values:

NULL Fail

**EntryPrtMarkerSupplies* Success

7.22.4.4 void setEntryPrtMarkSupp (EntryPrtMarkerSupplies * *entPrtMrkSup*, xmlChar * *node_name*, xmlChar * *data*)

Function to set data to EntryPrtMarkerSupplies object.

Parameters:

entPrtMrkSup Pointer to EntryPrtMarkerSupplies object

node_name Pointer to node name string

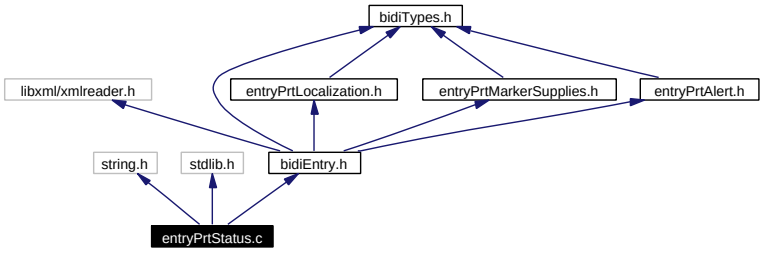
data Pointer to data string

7.23 entryPrtStatus.c File Reference

not in use!!

```
#include <string.h>
#include <stdlib.h>
#include "bidiEntry.h"
```

Include dependency graph for entryPrtStatus.c:



Functions

- EntryPrtStatus * newEntryPrtStatus (void)
- void deleteEntryPrtStat (EntryPrtStatus *self)
- EntryPrtStatus * addEntryPrtStat (EntryPrtStatus *self)
- void setEntryPrtStat (EntryPrtStatus *entPrtStat, xmlChar *node_name, xmlChar *data)

7.23.1 Detailed Description

not in use!!

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2004/02/24 08:56:36

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7.23.2 Function Documentation

7.23.2.1 EntryPrtStatus* addEntryPrtStat (EntryPrtStatus * *self*)

7.23.2.2 void deleteEntryPrtStat (EntryPrtStatus * *self*)

7.23.2.3 EntryPrtStatus* newEntryPrtStatus (void)

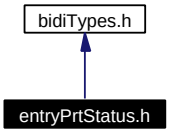
7.23.2.4 void setEntryPrtStat (EntryPrtStatus * *entPrtStat*, xmlChar * *node_name*, xmlChar * *data*)

7.24 entryPrtStatus.h File Reference

not in use!!

`#include <bidiTypes.h>`

Include dependency graph for entryPrtStatus.h:



Compounds

- struct _EntryPrtStatus

Typedefs

- typedef _EntryPrtStatus EntryPrtStatus

Enumerations

- enum enumPrtStatusIndex { PRTSTAT_INDEX = 1 }
- enum enumPrtStatusType {

  PRTSTAT_TYPE_ERROR = 0, PRTSTAT_TYPE_PRINTING = 1, PRTSTAT_TYPE_BUSY = 2, PRTSTAT_TYPE_WAIT = 3,

  PRTSTAT_TYPE_IDLE = 4, PRTSTAT_TYPE_IMPOSSIBLE = 5, PRTSTAT_TYPE_INK_DRY = 6, PRTSTAT_TYPE_CLEANING = 7,

  PRTSTAT_TYPE_FACTORY_DEFAULT = 8, PRTSTAT_TYPE_MOTOR_OFF = 9, PRTSTAT_TYPE_SHUTTINGDOWN = 10, PRTSTAT_TYPE_WAIT_INIT = 11,

  PRTSTAT_TYPE_INITIALIZING = 12 }

7.24.1 Detailed Description

not in use!!

Date Date
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7.24.2 Typedef Documentation

7.24.2.1 typedef struct _EntryPrtStatus EntryPrtStatus

7.24.3 Enumeration Type Documentation

7.24.3.1 enum enumPrtStatusIndex

Enumeration values:

PRTSTAT_INDEX

7.24.3.2 enum enumPrtStatusType

Enumeration values:

PRTSTAT_TYPE_ERROR

PRTSTAT_TYPE_PRINTING

PRTSTAT_TYPE_BUSY

PRTSTAT_TYPE_WAIT

PRTSTAT_TYPE_IDLE

PRTSTAT_TYPE_IMPOSSIBLE

PRTSTAT_TYPE_INK_DRY

PRTSTAT_TYPE_CLEANING

PRTSTAT_TYPE_FACTORY_DEFAULT

PRTSTAT_TYPE_MOTOR_OFF

PRTSTAT_TYPE_SHUTTINGDOWN

PRTSTAT_TYPE_WAIT_INIT

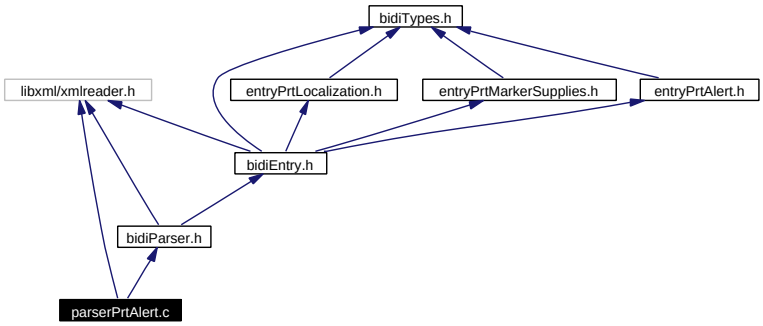
PRTSTAT_TYPE_INITIALIZING

7.25 parserPrtAlert.c File Reference

parse PrtAlertEntry.

```
#include <libxml/xmlreader.h>
#include "bidiParser.h"
```

Include dependency graph for parserPrtAlert.c:



Functions

- void parseNodePrtAlert (Parser ∗, Entry ∗)

  parse XML data and set data to Entry object especially PrtAlertEntry.

7.25.1 Detailed Description

parse PrtAlertEntry.

Date Date
2004/02/24 10:00:04

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7.25.2 Function Documentation

7.25.2.1 void parseNodePrtAlert (Parser ∗ *parser*, Entry ∗ *entry*)

parse XML data and set data to Entry object especially PrtAlertEntry.

Parameters:

parser Pointer to Parser object.

entry Pointer to Entry object.

Returns:

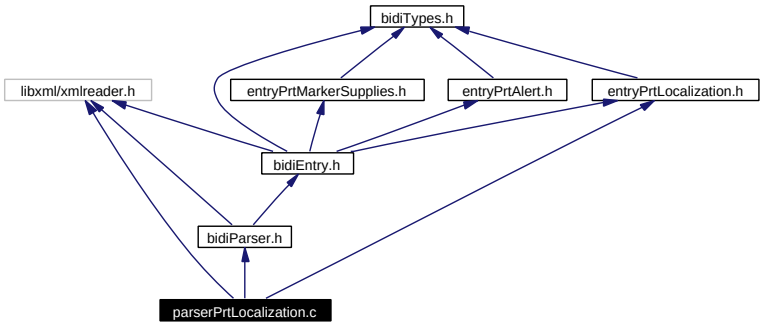
None.

7.26 parserPrtLocalization.c File Reference

parse PrtLocalizationEntry.

```
#include <libxml/xmlreader.h>
#include "bidiParser.h"
#include "entryPrtLocalization.h"
```

Include dependency graph for parserPrtLocalization.c:



Functions

- void parseNodePrtLocalization (Parser *, Entry *)

  parse XML data and set data to Entry object especially PrtLocalizationEntry.

7.26.1 Detailed Description

parse PrtLocalizationEntry.

Date: Date
2004/02/24 10:00:04

Version: Revision
1.10
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7.26.2 Function Documentation

7.26.2.1 void parseNodePrtLocalization (Parser * *parser*, Entry * *entry*)

parse XML data and set data to Entry object especially PrtLocalizationEntry.

Parameters:

parser Pointer to Parser object.

entry Pointer to Entry object.

Returns:

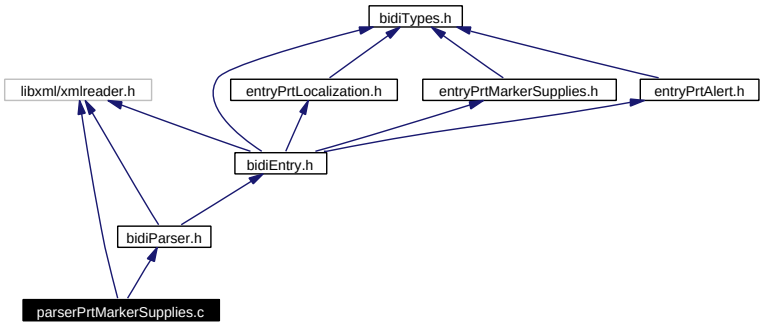
None.

7.27 parserPrtMarkerSupplies.c File Reference

parse PrtMarkerSuppliesEntry.

```
#include <libxml/xmlreader.h>
#include "bidiParser.h"
```

Include dependency graph for parserPrtMarkerSupplies.c:



Functions

- void parseNodePrtMarkerSupplies (Parser *, Entry *)

  parse XML data and set data to Entry object especially PrtMarkerSuppliesEntry.

7.27.1 Detailed Description

parse PrtMarkerSuppliesEntry.

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2004/02/24 10:00:04

Version Revision
1.10
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7.27.2 Function Documentation

7.27.2.1 void parseNodePrtMarkerSupplies (Parser * *parser*, Entry * *entry*)

parse XML data and set data to Entry object especially PrtMarkerSuppliesEntry.

Parameters:

parser Pointer to Parser object.

entry Pointer to Entry object.

Returns:

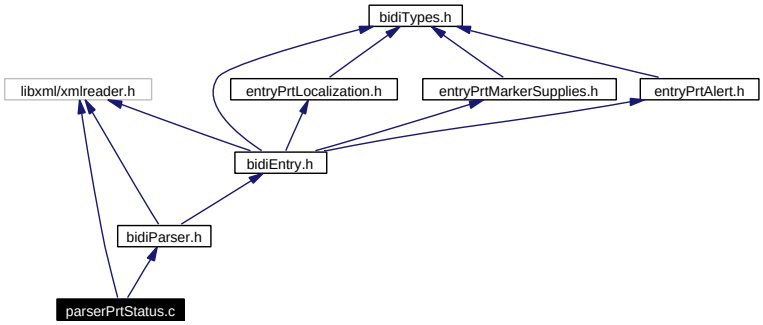
None.

7.28 parserPrtStatus.c File Reference

not in use!!

```
#include <libxml/xmlreader.h>
#include "bidiParser.h"
```

Include dependency graph for parserPrtStatus.c:



Functions

- void parseNodePrtStatus (Parser *, Entry *)

7.28.1 Detailed Description

not in use!!

Date Date
2004/02/24 10:00:04

Version Revision
1.7
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7.28.2 Function Documentation

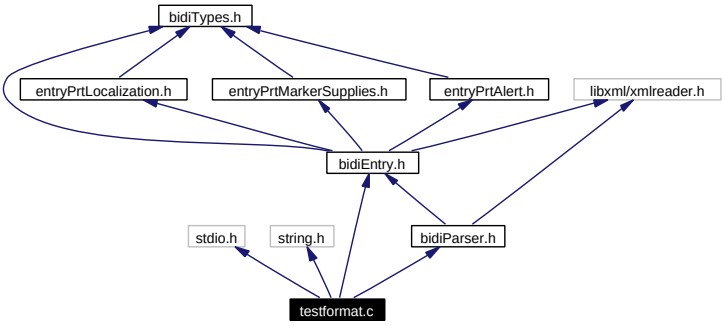
7.28.2.1 void parseNodePrtStatus (Parser *, Entry *)

7.29 testformat.c File Reference

test program to check bidiformat.

```
#include <stdio.h>
#include <string.h>
#include "bidiEntry.h"
#include "bidiParser.h"
```

Include dependency graph for testformat.c:



Functions

- void showLocalization (EntryPrtLocalization *entLoc)
- void showMarkerSupplies (EntryPrtMarkerSupplies *entMrk)
- void showAlert (EntryPrtAlert *entAlt)
- void showEntry (Entry *entry)
- int main (int argc, char **argv)

7.29.1 Detailed Description

test program to check bidiformat.

Usage: testformat [XML file]

Date
2004/02/18 20:48:05

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7.29.2 Function Documentation

7.29.2.1 int main (int *argc*, char ** *argv*)

7.29.2.2 void showAlert (EntryPrtAlert * *entAlt*)

7.29.2.3 void showEntry (Entry * *entry*)

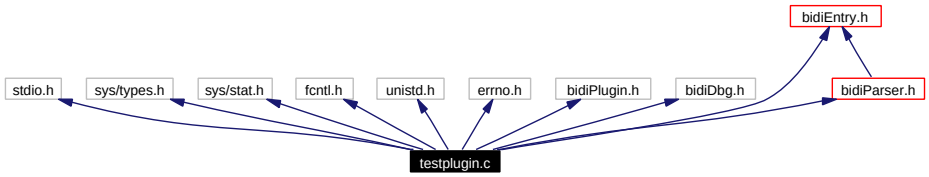
7.29.2.4 void showLocalization (EntryPrtLocalization * *entLoc*)

7.29.2.5 void showMarkerSupplies (EntryPrtMarkerSupplies * *entMrk*)

7.30 testplugin.c File Reference

```
#include <stdio.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <fcntl.h>
#include <unistd.h>
#include <errno.h>
#include <bidiPlugin.h>
#include <bidiDbg.h>
#include <bidiEntry.h>
#include <bidiParser.h>
```

Include dependency graph for testplugin.c:



Functions

- void showLocalization (EntryPrtLocalization *entLoc)
- void showMarkerSupplies (EntryPrtMarkerSupplies *entMrk)
- void showAlert (EntryPrtAlert *entAlt)
- void showEntry (Entry *entry)
- char * addInfo (char *dest, const char *append, size_t len)
- int main (int argc, char *argv[ ])

7.30.1 Function Documentation

7.30.1.1 char* addInfo (char * *dest*, const char * *append*, size_t *len*)

7.30.1.2 int main (int *argc*, char * *argv*[ ])

7.30.1.3 void showAlert (EntryPrtAlert * *entAlt*)

7.30.1.4 void showEntry (Entry * *entry*)

7.30.1.5 void showLocalization (EntryPrtLocalization * *entLoc*)

7.30.1.6 void showMarkerSupplies (EntryPrtMarkerSupplies * *entMrk*)

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