

libbluray

Generated by Doxygen 1.7.3

Wed Jun 29 2011 16:32:45



# Contents

<b>1</b>	<b>Class Index</b>	<b>1</b>
1.1	Class List . . . . .	1
<b>2</b>	<b>File Index</b>	<b>3</b>
2.1	File List . . . . .	3
<b>3</b>	<b>Class Documentation</b>	<b>5</b>
3.1	bd_chapter Struct Reference . . . . .	5
3.2	bd_clip Struct Reference . . . . .	5
3.3	BD_EVENT Struct Reference . . . . .	6
3.4	bd_stream_info Struct Reference . . . . .	6
3.5	bd_title_info Struct Reference . . . . .	7
3.6	BLURAY_DISC_INFO Struct Reference . . . . .	7
<b>4</b>	<b>File Documentation</b>	<b>9</b>
4.1	src/libbluray/bluray.h File Reference . . . . .	9
4.1.1	Detailed Description . . . . .	12
4.1.2	Define Documentation . . . . .	12
4.1.2.1	TITLES_ALL . . . . .	12
4.1.2.2	TITLES_FILTER_DUP_CLIP . . . . .	12
4.1.2.3	TITLES_FILTER_DUP_TITLE . . . . .	13
4.1.2.4	TITLES_RELEVANT . . . . .	13
4.1.3	Function Documentation . . . . .	13
4.1.3.1	bd_chapter_pos . . . . .	13
4.1.3.2	bd_close . . . . .	13
4.1.3.3	bd_free_title_info . . . . .	13
4.1.3.4	bd_get_current_angle . . . . .	14
4.1.3.5	bd_get_current_chapter . . . . .	14
4.1.3.6	bd_get_current_title . . . . .	14
4.1.3.7	bd_get_playlist_info . . . . .	14
4.1.3.8	bd_get_title_info . . . . .	15
4.1.3.9	bd_get_title_size . . . . .	15
4.1.3.10	bd_get_titles . . . . .	15
4.1.3.11	bd_open . . . . .	16
4.1.3.12	bd_read . . . . .	16

4.1.3.13	<a href="#">bd_seamless_angle_change</a>	16
4.1.3.14	<a href="#">bd_seek</a>	16
4.1.3.15	<a href="#">bd_seek_chapter</a>	17
4.1.3.16	<a href="#">bd_seek_mark</a>	17
4.1.3.17	<a href="#">bd_seek_time</a>	17
4.1.3.18	<a href="#">bd_select_angle</a>	18
4.1.3.19	<a href="#">bd_select_playlist</a>	18
4.1.3.20	<a href="#">bd_select_title</a>	18
4.1.3.21	<a href="#">bd_set_player_setting</a>	18
4.1.3.22	<a href="#">bd_tell</a>	19
4.1.3.23	<a href="#">bd_tell_time</a>	19

# Chapter 1

## Class Index

### 1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

<a href="#">bd_chapter</a>	5
<a href="#">bd_clip</a>	5
<a href="#">BD_EVENT</a>	6
<a href="#">bd_stream_info</a>	6
<a href="#">bd_title_info</a>	7
<a href="#">BLURAY_DISC_INFO</a>	7



# Chapter 2

# File Index

## 2.1 File List

Here is a list of all documented files with brief descriptions:

src/libbluray/ <a href="#">bluray.h</a> . . . . .	9
---	---





## Chapter 3

# Class Documentation

### 3.1 `bd_chapter` Struct Reference

#### Public Attributes

- `uint32_t idx`
- `uint64_t start`
- `uint64_t duration`
- `uint64_t offset`

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

- `src/libbluray/bluray.h`

### 3.2 `bd_clip` Struct Reference

#### Public Attributes

- `uint32_t pkt_count`
- `uint8_t video_stream_count`
- `uint8_t audio_stream_count`
- `uint8_t pg_stream_count`
- `uint8_t ig_stream_count`
- `uint8_t sec_audio_stream_count`
- `uint8_t sec_video_stream_count`
- `BLURAY_STREAM_INFO * video_streams`
- `BLURAY_STREAM_INFO * audio_streams`

- [BLURAY\\_STREAM\\_INFO](#) \* **pg\_streams**
- [BLURAY\\_STREAM\\_INFO](#) \* **ig\_streams**
- [BLURAY\\_STREAM\\_INFO](#) \* **sec\_audio\_streams**
- [BLURAY\\_STREAM\\_INFO](#) \* **sec\_video\_streams**

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

- [src/libbluray/bluray.h](#)

### 3.3 BD\_EVENT Struct Reference

#### Public Attributes

- `uint32_t` **event**
- `uint32_t` **param**

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

- [src/libbluray/bluray.h](#)

### 3.4 bd\_stream\_info Struct Reference

#### Public Attributes

- `uint8_t` **coding\_type**
- `uint8_t` **format**
- `uint8_t` **rate**
- `uint8_t` **char\_code**
- `uint8_t` **lang** [4]
- `uint16_t` **pid**
- `uint8_t` **aspect**

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

- [src/libbluray/bluray.h](#)

## 3.5 `bd_title_info` Struct Reference

### Public Attributes

- `uint32_t idx`
- `uint32_t playlist`
- `uint64_t duration`
- `uint32_t clip_count`
- `uint8_t angle_count`
- `uint32_t chapter_count`
- [BLURAY\\_CLIP\\_INFO](#) \* `clips`
- [BLURAY\\_TITLE\\_CHAPTER](#) \* `chapters`

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

- `src/libbluray/bluray.h`

## 3.6 `BLURAY_DISC_INFO` Struct Reference

### Public Attributes

- `uint8_t bluray_detected`
- `uint8_t first_play_supported`
- `uint8_t top_menu_supported`
- `uint32_t num_hdmv_titles`
- `uint32_t num_bdj_titles`
- `uint32_t num_unsupported_titles`
- `uint8_t aacs_detected`
- `uint8_t libaacs_detected`
- `uint8_t aacs_handled`
- `uint8_t bdplus_detected`
- `uint8_t libbdplus_detected`
- `uint8_t bdplus_handled`

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

- `src/libbluray/bluray.h`



## Chapter 4

# File Documentation

### 4.1 src/libbluray/bluray.h File Reference

```
#include <stdint.h>
```

#### Classes

- struct [bd\\_stream\\_info](#)
- struct [bd\\_clip](#)
- struct [bd\\_chapter](#)
- struct [bd\\_title\\_info](#)
- struct [BLURAY\\_DISC\\_INFO](#)
- struct [BD\\_EVENT](#)

#### Defines

- #define [TITLES\\_ALL](#) 0
- #define [TITLES\\_FILTER\\_DUP\\_TITLE](#) 0x01
- #define [TITLES\\_FILTER\\_DUP\\_CLIP](#) 0x02
- #define [TITLES\\_RELEVANT](#) (TITLES\_FILTER\_DUP\_TITLE | TITLES\_FILTER\_DUP\_CLIP)

#### Typedefs

- typedef struct bluray [BLURAY](#)
- typedef struct [bd\\_stream\\_info](#) [BLURAY\\_STREAM\\_INFO](#)
- typedef struct [bd\\_clip](#) [BLURAY\\_CLIP\\_INFO](#)

- typedef struct [bd\\_chapter](#) BLURAY\_TITLE\_CHAPTER
- typedef struct [bd\\_title\\_info](#) BLURAY\_TITLE\_INFO
- typedef void(\* [bd\\_overlay\\_proc\\_f](#))(void \*, const struct bd\_overlay\_s \*const)

## Enumerations

- enum [bd\\_stream\\_type\\_e](#) {  
 BLURAY\_STREAM\_TYPE\_VIDEO\_MPEG1 = 0x01, BLURAY\_STREAM\_TYPE\_VIDEO\_MPEG2 = 0x02, BLURAY\_STREAM\_TYPE\_AUDIO\_MPEG1 = 0x03, BLURAY\_STREAM\_TYPE\_AUDIO\_MPEG2 = 0x04,  
 BLURAY\_STREAM\_TYPE\_AUDIO\_LPCM = 0x80, BLURAY\_STREAM\_TYPE\_AUDIO\_AC3 = 0x81, BLURAY\_STREAM\_TYPE\_AUDIO\_DTS = 0x82, BLURAY\_STREAM\_TYPE\_AUDIO\_TRUEHD = 0x83,  
 BLURAY\_STREAM\_TYPE\_AUDIO\_AC3PLUS = 0x84, BLURAY\_STREAM\_TYPE\_AUDIO\_DTSHD = 0x85, BLURAY\_STREAM\_TYPE\_AUDIO\_DTSHD\_MASTER = 0x86, BLURAY\_STREAM\_TYPE\_VIDEO\_VC1 = 0xea,  
 BLURAY\_STREAM\_TYPE\_VIDEO\_H264 = 0x1b, BLURAY\_STREAM\_TYPE\_SUB\_PG = 0x90, BLURAY\_STREAM\_TYPE\_SUB\_IG = 0x91, BLURAY\_STREAM\_TYPE\_SUB\_TEXT = 0x92 }
- enum [bd\\_video\\_format\\_e](#) {  
 BLURAY\_VIDEO\_FORMAT\_480I = 1, BLURAY\_VIDEO\_FORMAT\_576I = 2, BLURAY\_VIDEO\_FORMAT\_480P = 3, BLURAY\_VIDEO\_FORMAT\_1080I = 4,  
 BLURAY\_VIDEO\_FORMAT\_720P = 5, BLURAY\_VIDEO\_FORMAT\_1080P = 6, BLURAY\_VIDEO\_FORMAT\_576P = 7 }
- enum [bd\\_video\\_rate\\_e](#) {  
 BLURAY\_VIDEO\_RATE\_24000\_1001 = 1, BLURAY\_VIDEO\_RATE\_24 = 2, BLURAY\_VIDEO\_RATE\_25 = 3, BLURAY\_VIDEO\_RATE\_30000\_1001 = 4,  
 BLURAY\_VIDEO\_RATE\_50 = 6, BLURAY\_VIDEO\_RATE\_60000\_1001 = 7 }
- enum [bd\\_video\\_aspect\\_e](#) { BLURAY\_ASPECT\_RATIO\_4\_3 = 2, BLURAY\_ASPECT\_RATIO\_16\_9 = 3 }
- enum [bd\\_audio\\_format\\_e](#) { BLURAY\_AUDIO\_FORMAT\_MONO = 1, BLURAY\_AUDIO\_FORMAT\_STEREO = 3, BLURAY\_AUDIO\_FORMAT\_MULTI\_CHAN = 6, BLURAY\_AUDIO\_FORMAT\_COMBO = 12 }
- enum [bd\\_audio\\_rate\\_e](#) {  
 BLURAY\_AUDIO\_RATE\_48 = 1, BLURAY\_AUDIO\_RATE\_96 = 4, BLURAY\_AUDIO\_RATE\_192 = 5, BLURAY\_AUDIO\_RATE\_192\_COMBO = 12,  
 BLURAY\_AUDIO\_RATE\_96\_COMBO = 14 }

- enum **bd\_char\_code\_e** {  
**BLURAY\_TEXT\_CHAR\_CODE\_UTF8** = 0x01, **BLURAY\_TEXT\_CHAR\_CODE\_UTF16BE** = 0x02, **BLURAY\_TEXT\_CHAR\_CODE\_SHIFT\_JIS** = 0x03, **BLURAY\_TEXT\_CHAR\_CODE\_EUC\_KR** = 0x04,  
**BLURAY\_TEXT\_CHAR\_CODE\_GB18030\_20001** = 0x05, **BLURAY\_TEXT\_CHAR\_CODE\_CN\_GB** = 0x06, **BLURAY\_TEXT\_CHAR\_CODE\_BIG5** = 0x07 }
- enum **bd\_player\_setting** {  
**BLURAY\_PLAYER\_SETTING\_PARENTAL** = 13, **BLURAY\_PLAYER\_SETTING\_AUDIO\_CAP** = 15, **BLURAY\_PLAYER\_SETTING\_AUDIO\_LANG** = 16, **BLURAY\_PLAYER\_SETTING\_PG\_LANG** = 17,  
**BLURAY\_PLAYER\_SETTING\_MENU\_LANG** = 18, **BLURAY\_PLAYER\_SETTING\_COUNTRY\_CODE** = 19, **BLURAY\_PLAYER\_SETTING\_REGION\_CODE** = 20, **BLURAY\_PLAYER\_SETTING\_VIDEO\_CAP** = 29,  
**BLURAY\_PLAYER\_SETTING\_TEXT\_CAP** = 30, **BLURAY\_PLAYER\_SETTING\_PLAYER\_PROFILE** = 31 }
- enum **bd\_event\_e** {  
**BD\_EVENT\_NONE** = 0, **BD\_EVENT\_ERROR**, **BD\_EVENT\_ANGLE**, **BD\_EVENT\_TITLE**,  
**BD\_EVENT\_PLAYLIST**, **BD\_EVENT\_PLAYITEM**, **BD\_EVENT\_CHAPTER**, **BD\_EVENT\_AUDIO\_STREAM**,  
**BD\_EVENT\_IG\_STREAM**, **BD\_EVENT\_PG\_TEXTST\_STREAM**, **BD\_EVENT\_PIP\_PG\_TEXTST\_STREAM**, **BD\_EVENT\_SECONDARY\_AUDIO\_STREAM**,  
**BD\_EVENT\_SECONDARY\_VIDEO\_STREAM**, **BD\_EVENT\_PG\_TEXTST**, **BD\_EVENT\_PIP\_PG\_TEXTST**, **BD\_EVENT\_SECONDARY\_AUDIO**,  
**BD\_EVENT\_SECONDARY\_VIDEO**, **BD\_EVENT\_SECONDARY\_VIDEO\_SIZE**, **BD\_EVENT\_MENU\_PAGE\_ID**, **BD\_EVENT\_SELECTED\_BUTTON\_ID**,  
**BD\_EVENT\_POPUP\_OFF**, **BD\_EVENT\_ENABLE\_BUTTON**, **BD\_EVENT\_DISABLE\_BUTTON**, **BD\_EVENT\_STILL** }

## Functions

- uint32\_t **bd\_get\_titles** (BLURAY \*bd, uint8\_t flags)
- BLURAY\_TITLE\_INFO \* **bd\_get\_title\_info** (BLURAY \*bd, uint32\_t title\_idx)
- BLURAY\_TITLE\_INFO \* **bd\_get\_playlist\_info** (BLURAY \*bd, uint32\_t playlist)
- void **bd\_free\_title\_info** (BLURAY\_TITLE\_INFO \*title\_info)
- BLURAY \* **bd\_open** (const char \*device\_path, const char \*keyfile\_path)
- void **bd\_close** (BLURAY \*bd)
- int64\_t **bd\_seek** (BLURAY \*bd, uint64\_t pos)
- int64\_t **bd\_seek\_time** (BLURAY \*bd, uint64\_t tick)

- int [bd\\_read](#) (BLURAY \*bd, unsigned char \*buf, int len)
- int64\_t [bd\\_seek\\_chapter](#) (BLURAY \*bd, unsigned chapter)
- int64\_t [bd\\_chapter\\_pos](#) (BLURAY \*bd, unsigned chapter)
- uint32\_t [bd\\_get\\_current\\_chapter](#) (BLURAY \*bd)
- int64\_t [bd\\_seek\\_mark](#) (BLURAY \*bd, unsigned mark)
- int [bd\\_select\\_playlist](#) (BLURAY \*bd, uint32\_t playlist)
- int [bd\\_select\\_title](#) (BLURAY \*bd, uint32\_t title)
- int [bd\\_select\\_angle](#) (BLURAY \*bd, unsigned angle)
- void [bd\\_seamless\\_angle\\_change](#) (BLURAY \*bd, unsigned angle)
- uint64\_t [bd\\_get\\_title\\_size](#) (BLURAY \*bd)
- uint32\_t [bd\\_get\\_current\\_title](#) (BLURAY \*bd)
- unsigned [bd\\_get\\_current\\_angle](#) (BLURAY \*bd)
- uint64\_t [bd\\_tell](#) (BLURAY \*bd)
- uint64\_t [bd\\_tell\\_time](#) (BLURAY \*bd)
- const [BLURAY\\_DISC\\_INFO](#) \* [bd\\_get\\_disc\\_info](#) (BLURAY \*)
- int [bd\\_set\\_player\\_setting](#) (BLURAY \*bd, uint32\_t idx, uint32\_t value)
- int [bd\\_set\\_player\\_setting\\_str](#) (BLURAY \*bd, uint32\_t idx, const char \*s)
- int [bd\\_start\\_bdj](#) (BLURAY \*bd, const char \*start\_object)
- void [bd\\_stop\\_bdj](#) (BLURAY \*bd)
- int [bd\\_play](#) (BLURAY \*bd)
- int [bd\\_read\\_ext](#) (BLURAY \*bd, unsigned char \*buf, int len, [BD\\_EVENT](#) \*event)
  
- int [bd\\_get\\_event](#) (BLURAY \*bd, [BD\\_EVENT](#) \*event)
- int [bd\\_play\\_title](#) (BLURAY \*bd, unsigned title)
- int [bd\\_menu\\_call](#) (BLURAY \*bd)
- void [bd\\_register\\_overlay\\_proc](#) (BLURAY \*bd, void \*handle, bd\_overlay\_proc\_t func)
- void [bd\\_user\\_input](#) (BLURAY \*bd, int64\_t pts, uint32\_t key)

### 4.1.1 Detailed Description

external API header

### 4.1.2 Define Documentation

#### 4.1.2.1 `#define TITLES_ALL 0`

all titles.

#### 4.1.2.2 `#define TITLES_FILTER_DUP_CLIP 0x02`

remove titles that have duplicate clips.



#### 4.1.2.3 `#define TITLES_FILTER_DUP_TITLE 0x01`

remove duplicate titles.

#### 4.1.2.4 `#define TITLES_RELEVANT (TITLES_FILTER_DUP_TITLE | TITLES_FILTER_DUP_CLIP)`

remove duplicate titles and clips

### 4.1.3 Function Documentation

#### 4.1.3.1 `int64_t bd_chapter_pos ( BLURAY * bd, unsigned chapter )`

Find the byte position of a chapter

##### Parameters

<i>bd</i>	BLURAY object
<i>chapter</i>	chapter to find position of

##### Returns

seek position of chapter start

#### 4.1.3.2 `void bd_close ( BLURAY * bd )`

Free libbluray objects

##### Parameters

<i>bd</i>	BLURAY object
-----------	---------------

#### 4.1.3.3 `void bd_free_title_info ( BLURAY_TITLE_INFO * title_info )`

Free BLURAY\_TITLE\_INFO object

##### Parameters

<i>title_info</i>	BLURAY_TITLE_INFO object
-------------------	--------------------------

#### 4.1.3.4 unsigned bd\_get\_current\_angle ( BLURAY \* *bd* )

Return the current angle

##### Parameters

<i>bd</i>	BLURAY object
-----------	---------------

##### Returns

current angle

#### 4.1.3.5 uint32\_t bd\_get\_current\_chapter ( BLURAY \* *bd* )

Get the current chapter

##### Parameters

<i>bd</i>	BLURAY object
-----------	---------------

##### Returns

current chapter

#### 4.1.3.6 uint32\_t bd\_get\_current\_title ( BLURAY \* *bd* )

Returns the current title index

##### Parameters

<i>bd</i>	BLURAY object
-----------	---------------

##### Returns

current title index

#### 4.1.3.7 BLURAY\_TITLE\_INFO\* bd\_get\_playlist\_info ( BLURAY \* *bd*, uint32\_t *playlist* )

Get information about a playlist

##### Parameters

<i>bd</i>	BLURAY object
<i>playlist</i>	playlist number

**Returns**

allocated BLURAY\_TITLE\_INFO object, NULL on error

**4.1.3.8 BLURAY\_TITLE\_INFO\* bd\_get\_title\_info ( BLURAY \* *bd*, uint32\_t *title\_idx* )**

Get information about a title

**Parameters**

<i>bd</i>	BLURAY object
<i>title_idx</i>	title index number

**Returns**

allocated BLURAY\_TITLE\_INFO object, NULL on error

**4.1.3.9 uint64\_t bd\_get\_title\_size ( BLURAY \* *bd* )**

Returns file size in bytes of currently selected title, 0 in no title selected

**Parameters**

<i>bd</i>	BLURAY object
-----------	---------------

**Returns**

file size in bytes of currently selected title, 0 if no title selected

**4.1.3.10 uint32\_t bd\_get\_titles ( BLURAY \* *bd*, uint8\_t *flags* )**

This must be called after [bd\\_open\(\)](#) and before [bd\\_select\\_title\(\)](#). Populates the title list in BLURAY. Filtering of the returned list is controled through title flags

**Parameters**

<i>bd</i>	BLURAY object
<i>flags</i>	title flags

**Returns**

number of titles found

**4.1.3.11 BLURAY\* bd\_open ( const char \* *device\_path*, const char \* *keyfile\_path* )**

Initializes libbluray objects

**Parameters**

<i>device_path</i>	path to mounted Blu-ray disc
<i>keyfile_path</i>	path to KEYDB.cfg (may be NULL)

**Returns**

allocated BLURAY object, NULL if error

**4.1.3.12 int bd\_read ( BLURAY \* *bd*, unsigned char \* *buf*, int *len* )**

Read from currently selected title file, decrypt if possible

**Parameters**

<i>bd</i>	BLURAY object
<i>buf</i>	buffer to read data into
<i>len</i>	size of data to be read

**Returns**

size of data read, -1 if error

**4.1.3.13 void bd\_seamless\_angle\_change ( BLURAY \* *bd*, unsigned *angle* )**

Initiate seamless angle change

**Parameters**

<i>bd</i>	BLURAY object
<i>angle</i>	angle to change to

**4.1.3.14 int64\_t bd\_seek ( BLURAY \* *bd*, uint64\_t *pos* )**

Seek to pos in currently selected title

**Parameters**

<i>bd</i>	BLURAY object
<i>pos</i>	position to seek to

**Returns**

current seek position

**4.1.3.15 int64\_t bd\_seek\_chapter ( BLURAY \* *bd*, unsigned *chapter* )**

Seek to a chapter. First chapter is 0

**Parameters**

<i>bd</i>	BLURAY object
<i>chapter</i>	chapter to seek to

**Returns**

current seek position

**4.1.3.16 int64\_t bd\_seek\_mark ( BLURAY \* *bd*, unsigned *mark* )**

Seek to a playmark. First mark is 0

**Parameters**

<i>bd</i>	BLURAY object
<i>mark</i>	playmark to seek to

**Returns**

current seek position

**4.1.3.17 int64\_t bd\_seek\_time ( BLURAY \* *bd*, uint64\_t *tick* )**

Seek to specific time in 90Khz ticks

**Parameters**

<i>bd</i>	BLURAY object
<i>tick</i>	tick count

**Returns**

current seek position

#### 4.1.3.18 int bd\_select\_angle ( BLURAY \* *bd*, unsigned *angle* )

Set the angle to play

##### Parameters

<i>bd</i>	BLURAY object
<i>angle</i>	angle to play

##### Returns

1 on success, 0 if error

#### 4.1.3.19 int bd\_select\_playlist ( BLURAY \* *bd*, uint32\_t *playlist* )

Select a playlist

##### Parameters

<i>bd</i>	BLURAY object
<i>playlist</i>	playlist to select

##### Returns

1 on success, 0 if error

#### 4.1.3.20 int bd\_select\_title ( BLURAY \* *bd*, uint32\_t *title* )

Select the title from the list created by [bd\\_get\\_titles\(\)](#)

##### Parameters

<i>bd</i>	BLURAY object
<i>title</i>	title to select

##### Returns

1 on success, 0 if error

#### 4.1.3.21 int bd\_set\_player\_setting ( BLURAY \* *bd*, uint32\_t *idx*, uint32\_t *value* )

Update player setting registers

**Parameters**

<i>bd</i>	BLURAY object
<i>idx</i>	Player setting register
<i>value</i>	New value for player setting register

**Returns**

1 on success, 0 on error (invalid setting)

**4.1.3.22 uint64\_t bd\_tell ( BLURAY \* *bd* )**

Return current pos

**Parameters**

<i>bd</i>	BLURAY object
-----------	---------------

**Returns**

current seek position

**4.1.3.23 uint64\_t bd\_tell\_time ( BLURAY \* *bd* )**

Return current time

**Parameters**

<i>bd</i>	BLURAY object
-----------	---------------

**Returns**

current time

# Index

bd\_chapter, [5](#)  
bd\_chapter\_pos  
    [bluray.h, 13](#)  
bd\_clip, [5](#)  
bd\_close  
    [bluray.h, 13](#)  
BD\_EVENT, [6](#)  
bd\_free\_title\_info  
    [bluray.h, 13](#)  
bd\_get\_current\_angle  
    [bluray.h, 13](#)  
bd\_get\_current\_chapter  
    [bluray.h, 14](#)  
bd\_get\_current\_title  
    [bluray.h, 14](#)  
bd\_get\_playlist\_info  
    [bluray.h, 14](#)  
bd\_get\_title\_info  
    [bluray.h, 15](#)  
bd\_get\_title\_size  
    [bluray.h, 15](#)  
bd\_get\_titles  
    [bluray.h, 15](#)  
bd\_open  
    [bluray.h, 15](#)  
bd\_read  
    [bluray.h, 16](#)  
bd\_seamless\_angle\_change  
    [bluray.h, 16](#)  
bd\_seek  
    [bluray.h, 16](#)  
bd\_seek\_chapter  
    [bluray.h, 17](#)  
bd\_seek\_mark  
    [bluray.h, 17](#)  
bd\_seek\_time  
    [bluray.h, 17](#)  
bd\_select\_angle  
    [bluray.h, 17](#)  
bd\_select\_playlist  
    [bluray.h, 18](#)  
bd\_select\_title  
    [bluray.h, 18](#)  
bd\_set\_player\_setting  
    [bluray.h, 18](#)  
bd\_stream\_info, [6](#)  
bd\_tell  
    [bluray.h, 19](#)  
bd\_tell\_time  
    [bluray.h, 19](#)  
bd\_title\_info, [7](#)  
bluray.h  
    bd\_chapter\_pos, [13](#)  
    bd\_close, [13](#)  
    bd\_free\_title\_info, [13](#)  
    bd\_get\_current\_angle, [13](#)  
    bd\_get\_current\_chapter, [14](#)  
    bd\_get\_current\_title, [14](#)  
    bd\_get\_playlist\_info, [14](#)  
    bd\_get\_title\_info, [15](#)  
    bd\_get\_title\_size, [15](#)  
    bd\_get\_titles, [15](#)  
    bd\_open, [15](#)  
    bd\_read, [16](#)  
    bd\_seamless\_angle\_change, [16](#)  
    bd\_seek, [16](#)  
    bd\_seek\_chapter, [17](#)  
    bd\_seek\_mark, [17](#)  
    bd\_seek\_time, [17](#)  
    bd\_select\_angle, [17](#)  
    bd\_select\_playlist, [18](#)  
    bd\_select\_title, [18](#)  
    bd\_set\_player\_setting, [18](#)  
    bd\_tell, [19](#)



---

bd\_tell\_time, [19](#)  
TITLES\_ALL, [12](#)  
TITLES\_FILTER\_DUP\_CLIP, [12](#)  
TITLES\_FILTER\_DUP\_TITLE, [12](#)  
TITLES\_RELEVANT, [13](#)  
BLURAY\_DISC\_INFO, [7](#)  
  
src/libbluray/bluray.h, [9](#)  
  
TITLES\_ALL  
    bluray.h, [12](#)  
TITLES\_FILTER\_DUP\_CLIP  
    bluray.h, [12](#)  
TITLES\_FILTER\_DUP\_TITLE  
    bluray.h, [12](#)  
TITLES\_RELEVANT  
    bluray.h, [13](#)