ConsoleUtilities

Generated by Doxygen 1.5.6

Fri Apr 2 22:37:41 2010

Contents

1 Data Structure Index **1**

1.1 Data Structures 1

2 File Index **2**

2.1 File List 2

3 Data Structure Documentation **2**

3.1 ConsoleTable Struct Reference 2

3.1.1 Detailed Description 2

3.1.2 Field Documentation 2

3.2 ConsoleTable::Field Struct Reference 3

3.2.1 Detailed Description 3

3.2.2 Field Documentation 3

4 File Documentation **4**

4.1 include/ConsoleTable.h File Reference 4

4.1.1 Detailed Description 5

4.1.2 Define Documentation 5

4.1.3 Typedef Documentation 5

4.1.4 Enumeration Type Documentation 5

4.1.5 Function Documentation 6

4.2 src/ConsoleTable.c File Reference 7

4.2.1 Detailed Description 7

4.2.2 Function Documentation 7

1 Data Structure Index

1.1 Data Structures

Here are the data structures with brief descriptions:

ConsoleTable **2**

ConsoleTable::Field **3**

2 File Index

2.1 File List

Here is a list of all files with brief descriptions:

include/ConsoleTable.h (/console-utilities/include/ConsoleTable.h) 4

src/ConsoleTable.c (/console-utilities/src/ConsoleTable.c) 7

3 Data Structure Documentation

3.1 ConsoleTable Struct Reference

```
#include <ConsoleTable.h>
```

Data Fields

- struct ConsoleTable::Field * fields
- char linePrepend [CONSOLE_TABLE_MAX_SEPARATOR_LEN]
- char lineAppend [CONSOLE_TABLE_MAX_SEPARATOR_LEN]
- char colDelimiter [CONSOLE_TABLE_MAX_SEPARATOR_LEN]
- unsigned padding
- unsigned numFields

Data Structures

- struct Field

3.1.1 Detailed Description

Definition at line 42 of file ConsoleTable.h.

3.1.2 Field Documentation

3.1.2.1 struct ConsoleTable::Field* ConsoleTable::fields

Referenced by ConsoleTableAddField(), ConsoleTableCreate(), ConsoleTableDelete(), ConsoleTableFillCellHelper(), and ConsoleTablePrintHeader().

3.1.2.2 char ConsoleTable::linePrepend[CONSOLE_TABLE_MAX_SEPARATOR_LEN]

Definition at line 50 of file ConsoleTable.h.

Referenced by ConsoleTableCreate(), ConsoleTableFillCell(), ConsoleTablePrintHeader(), and ConsoleTableSetLinePrepend().

3.1.2.3 char ConsoleTable::lineAppend[CONSOLE_TABLE_MAX_SEPARATOR_LEN]

Definition at line 51 of file ConsoleTable.h.

Referenced by ConsoleTableCreate(), ConsoleTableFillCell(), ConsoleTablePrintHeader(), and ConsoleTableSetLineAppend().

3.1.2.4 char ConsoleTable::colDelimiter[CONSOLE_TABLE_MAX_SEPARATOR_LEN]

Definition at line 52 of file ConsoleTable.h.

Referenced by ConsoleTableCreate(), ConsoleTableFillCellHelper(), and ConsoleTableSetColDelimiter().

3.1.2.5 unsigned ConsoleTable::padding

Definition at line 53 of file ConsoleTable.h.

Referenced by ConsoleTableCreate(), ConsoleTableFillCellHelper(), and ConsoleTableSetPadding().

3.1.2.6 unsigned ConsoleTable::numFields

Definition at line 54 of file ConsoleTable.h.

Referenced by ConsoleTableAddField(), ConsoleTableCreate(), ConsoleTableFillCell(), and ConsoleTablePrintHeader().

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

- include/ConsoleTable.h

3.2 ConsoleTable::Field Struct Reference

`#include <ConsoleTable.h>`

Data Fields

- unsigned width
- char name [CONSOLE_TABLE_FIELD_NAME_MAXLEN]
- enum ConsoleTableAlignment alignment

3.2.1 Detailed Description

Definition at line 44 of file ConsoleTable.h.

3.2.2 Field Documentation

3.2.2.1 unsigned ConsoleTable::Field::width

Definition at line 46 of file ConsoleTable.h.

Referenced by ConsoleTableAddField(), and ConsoleTableFillCellHelper().

3.2.2.2 char ConsoleTable::Field::name[CONSOLE_TABLE_FIELD_NAME_MAXLEN]

Definition at line 47 of file ConsoleTable.h.

Referenced by ConsoleTableAddField(), and ConsoleTablePrintHeader().

3.2.2.3 enum ConsoleTableAlignment ConsoleTable::Field::alignment

Definition at line 48 of file ConsoleTable.h.

Referenced by ConsoleTableAddField(), and ConsoleTableFillCellHelper().

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

- include/ConsoleTable.h

4 File Documentation

4.1 include/ConsoleTable.h File Reference

/console-utilities/include/ConsoleTable.h

Data Structures

- struct ConsoleTable
- struct ConsoleTable::Field

Defines

- #define CONSOLE_TABLE_FIELD_NAME_MAXLEN 80
- #define CONSOLE_TABLE_MAX_SEPARATOR_LEN 10
- #define CONSOLE_TABLE_DEFAULT_COL_DELIMITER "|"

Typedefs

- typedef struct ConsoleTable ConsoleTableT

Enumerations

- enum ConsoleTableAlignment { CONSOLE_TABLE_ALIGNMENT_LEFT, CONSOLE_TABLE_ALIGNMENT_RIGHT }

Functions

- ConsoleTableT * ConsoleTableCreate ()
- int ConsoleTableAddField (ConsoleTableT *tableObj, unsigned width, const char *name, enum ConsoleTableAlignment alignment)
- void ConsoleTableDelete (ConsoleTableT *tableObj)
- void ConsoleTablePrintHeader (ConsoleTableT *tableObj)
- void ConsoleTableFillCell (ConsoleTableT *tableObj, const char *content)

- void ConsoleTableSetLinePrepend (ConsoleTableT *tableObj, const char *prependstr)
- void ConsoleTableSetLineAppend (ConsoleTableT *tableObj, const char *appendStr)
- void ConsoleTableSetColDelimiter (ConsoleTableT *tableObj, const char *colDelimiterStr)
- void ConsoleTableSetPadding (ConsoleTableT *tableObj, unsigned padding)

4.1.1 Detailed Description

/console-utilities/include/ConsoleTable.h

Date:

22/03/2010

Author:

Matheus Neder <matheusneder@gmail.com>

Definition in file ConsoleTable.h.

4.1.2 Define Documentation

4.1.2.1 #define CONSOLE_TABLE_DEFAULT_COL_DELIMITER "|"

Definition at line 33 of file ConsoleTable.h.

Referenced by ConsoleTableCreate().

4.1.2.2 #define CONSOLE_TABLE_FIELD_NAME_MAXLEN 80

Definition at line 29 of file ConsoleTable.h.

Referenced by ConsoleTableAddField().

4.1.2.3 #define CONSOLE_TABLE_MAX_SEPARATOR_LEN 10

Definition at line 31 of file ConsoleTable.h.

Referenced by ConsoleTableSetColDelimiter(), ConsoleTableSetLineAppend(), and ConsoleTableSetLinePrepend().

4.1.3 Typedef Documentation

4.1.3.1 typedef struct ConsoleTable ConsoleTableT

Definition at line 57 of file ConsoleTable.h.

4.1.4 Enumeration Type Documentation

4.1.4.1 enum ConsoleTableAlignment

Enumerator:

CONSOLE_TABLE_ALIGNMENT_LEFT
CONSOLE_TABLE_ALIGNMENT_RIGHT

Definition at line 35 of file ConsoleTable.h.

4.1.5 Function Documentation

4.1.5.1 int ConsoleTableAddField (ConsoleTableT * *tableObj*, unsigned *width*, const char * *name*, enum ConsoleTableAlignment *alignment*)

Definition at line 48 of file ConsoleTable.c.

References ConsoleTable::Field::alignment, CONSOLE_TABLE_FIELD_NAME_MAXLEN, ConsoleTable::fields, ConsoleTable::Field::name, ConsoleTable::numFields, and ConsoleTable::Field::width.

4.1.5.2 ConsoleTableT* ConsoleTableCreate ()

Definition at line 32 of file ConsoleTable.c.

References ConsoleTable::colDelimiter, CONSOLE_TABLE_DEFAULT_COL_DELIMITER, ConsoleTable::fields, ConsoleTable::lineAppend, ConsoleTable::linePrepend, ConsoleTable::numFields, and ConsoleTable::padding.

4.1.5.3 void ConsoleTableDelete (ConsoleTableT * *tableObj*)

Definition at line 172 of file ConsoleTable.c.

References ConsoleTable::fields.

4.1.5.4 void ConsoleTableFillCell (ConsoleTableT * *tableObj*, const char * *content*)

Definition at line 140 of file ConsoleTable.c.

References ConsoleTableFillCellHelper(), ConsoleTable::lineAppend, ConsoleTable::linePrepend, and ConsoleTable::numFields.

4.1.5.5 void ConsoleTablePrintHeader (ConsoleTableT * *tableObj*)

Definition at line 161 of file ConsoleTable.c.

References ConsoleTableFillCellHelper(), ConsoleTable::fields, ConsoleTable::lineAppend, ConsoleTable::linePrepend, ConsoleTable::Field::name, and ConsoleTable::numFields.

4.1.5.6 void ConsoleTableSetColDelimiter (ConsoleTableT * *tableObj*, const char * *colDelimiterStr*)

Definition at line 82 of file ConsoleTable.c.

References ConsoleTable::colDelimiter, and CONSOLE_TABLE_MAX_SEPARATOR_LEN.

4.1.5.7 void ConsoleTableSetLineAppend (ConsoleTableT * *tableObj*, const char * *appendStr*)

Definition at line 76 of file ConsoleTable.c.

References CONSOLE_TABLE_MAX_SEPARATOR_LEN, and ConsoleTable::lineAppend.

4.1.5.8 void ConsoleTableSetLinePrepend (ConsoleTableT * *tableObj*, const char * *prependstr*)

Definition at line 70 of file ConsoleTable.c.

References CONSOLE_TABLE_MAX_SEPARATOR_LEN, and ConsoleTable::linePrepend.

4.1.5.9 void ConsoleTableSetPadding (ConsoleTableT * *tableObj*, unsigned *padding*)

Definition at line 88 of file ConsoleTable.c.

References ConsoleTable::padding.

4.2 src/ConsoleTable.c File Reference

/console-utilities/src/ConsoleTable.c

```
#include "ConsoleTable.h"
#include <stdlib.h>
#include <string.h>
#include <stdio.h>
#include "StringUtilities.h"
```

Functions

- ConsoleTableT * ConsoleTableCreate ()
- int ConsoleTableAddField (ConsoleTableT *tableObj, unsigned width, const char *name, enum ConsoleTableAlignment alignment)
- void ConsoleTableSetLinePrepend (ConsoleTableT *tableObj, const char *prependstr)
- void ConsoleTableSetLineAppend (ConsoleTableT *tableObj, const char *appendStr)
- void ConsoleTableSetColDelimiter (ConsoleTableT *tableObj, const char *colDelimiterStr)
- void ConsoleTableSetPadding (ConsoleTableT *tableObj, unsigned padding)
- static void ConsoleTableFillCellHelper (ConsoleTableT *tableObj, const char *content, unsigned i)
- void ConsoleTableFillCell (ConsoleTableT *tableObj, const char *content)
- void ConsoleTablePrintHeader (ConsoleTableT *tableObj)
- void ConsoleTableDelete (ConsoleTableT *tableObj)

4.2.1 Detailed Description

/console-utilities/src/ConsoleTable.c

Date:

22/03/2010

Author:

Matheus Neder <matheusneder@gmail.com>

Definition in file ConsoleTable.c.

4.2.2 Function Documentation

4.2.2.1 int ConsoleTableAddField (ConsoleTableT * *tableObj*, unsigned *width*, const char * *name*, enum ConsoleTableAlignment *alignment*)

Definition at line 48 of file ConsoleTable.c.

References ConsoleTable::Field::alignment, CONSOLE_TABLE_FIELD_NAME_MAXLEN, ConsoleTable::fields, ConsoleTable::Field::name, ConsoleTable::numFields, and ConsoleTable::Field::width.

4.2.2.2 ConsoleTableT* ConsoleTableCreate ()

Definition at line 32 of file ConsoleTable.c.

References ConsoleTable::colDelimiter, CONSOLE_TABLE_DEFAULT_COL_DELIMITER, ConsoleTable::fields, ConsoleTable::lineAppend, ConsoleTable::linePrepend, ConsoleTable::numFields, and ConsoleTable::padding.

4.2.2.3 void ConsoleTableDelete (ConsoleTableT * *tableObj*)

Definition at line 172 of file ConsoleTable.c.

References ConsoleTable::fields.

4.2.2.4 void ConsoleTableFillCell (ConsoleTableT * *tableObj*, const char * *content*)

Definition at line 140 of file ConsoleTable.c.

References ConsoleTableFillCellHelper(), ConsoleTable::lineAppend, ConsoleTable::linePrepend, and ConsoleTable::numFields.

4.2.2.5 static void ConsoleTableFillCellHelper (ConsoleTableT * *tableObj*, const char * *content*, unsigned *i*) [static]

Definition at line 115 of file ConsoleTable.c.

References ConsoleTable::Field::alignment, ConsoleTable::colDelimiter, CONSOLE_TABLE_ALIGNMENT_LEFT, ConsoleTable::fields, ConsoleTable::padding, and ConsoleTable::Field::width.

Referenced by ConsoleTableFillCell(), and ConsoleTablePrintHeader().

4.2.2.6 void ConsoleTablePrintHeader (ConsoleTableT * *tableObj*)

Definition at line 161 of file ConsoleTable.c.

References ConsoleTableFillCellHelper(), ConsoleTable::fields, ConsoleTable::lineAppend, ConsoleTable::linePrepend, ConsoleTable::Field::name, and ConsoleTable::numFields.

4.2.2.7 void ConsoleTableSetColDelimiter (ConsoleTableT * *tableObj*, const char * *colDelimiterStr*)

Definition at line 82 of file ConsoleTable.c.

References ConsoleTable::colDelimiter, and CONSOLE_TABLE_MAX_SEPARATOR_LEN.

4.2.2.8 void ConsoleTableSetLineAppend (ConsoleTableT * *tableObj*, const char * *appendStr*)

Definition at line 76 of file ConsoleTable.c.

References CONSOLE_TABLE_MAX_SEPARATOR_LEN, and ConsoleTable::lineAppend.

4.2.2.9 void ConsoleTableSetLinePrepend (ConsoleTableT * *tableObj*, const char * *prependstr*)

Definition at line 70 of file ConsoleTable.c.

References CONSOLE_TABLE_MAX_SEPARATOR_LEN, and ConsoleTable::linePrepend.

4.2.2.10 void ConsoleTableSetPadding (ConsoleTableT * *tableObj*, unsigned *padding*)

Definition at line 88 of file ConsoleTable.c.

References ConsoleTable::padding.

Index

alignment
ConsoleTable::Field, 3

colDelimiter
ConsoleTable, 2
CONSOLE_TABLE_ALIGNMENT_LEFT
ConsoleTable.h, 5
CONSOLE_TABLE_ALIGNMENT_RIGHT
ConsoleTable.h, 5
CONSOLE_TABLE_DEFAULT_COL_-
DELIMITER
ConsoleTable.h, 4
CONSOLE_TABLE_FIELD_NAME_MAXLEN
ConsoleTable.h, 4
CONSOLE_TABLE_MAX_SEPARATOR_LEN
ConsoleTable.h, 4
ConsoleTable, 1
colDelimiter, 2
fields, 2
lineAppend, 2
linePrepend, 2
numFields, 2
padding, 2
ConsoleTable.c
ConsoleTableAddField, 7
ConsoleTableCreate, 7
ConsoleTableDelete, 7
ConsoleTableFillCell, 7
ConsoleTableFillCellHelper, 7
ConsoleTablePrintHeader, 7
ConsoleTableSetColDelimiter, 8
ConsoleTableSetLineAppend, 8
ConsoleTableSetLinePrepend, 8
ConsoleTableSetPadding, 8
ConsoleTable.h
CONSOLE_TABLE_ALIGNMENT_LEFT, 5
CONSOLE_TABLE_ALIGNMENT_RIGHT,
5
CONSOLE_TABLE_DEFAULT_COL_-
DELIMITER, 4
CONSOLE_TABLE_FIELD_NAME_-
MAXLEN, 4
CONSOLE_TABLE_MAX_SEPARATOR_-
LEN, 4
ConsoleTableAddField, 5
ConsoleTableAlignment, 5
ConsoleTableCreate, 5
ConsoleTableDelete, 5
ConsoleTableFillCell, 5
ConsoleTablePrintHeader, 5
ConsoleTableSetColDelimiter, 5
ConsoleTableSetLineAppend, 6
ConsoleTableSetLinePrepend, 6
ConsoleTableSetPadding, 6
ConsoleTableT, 5
ConsoleTable::Field, 2
alignment, 3
name, 3
width, 3
ConsoleTableAddField
ConsoleTable.c, 7
ConsoleTable.h, 5
ConsoleTableAlignment
ConsoleTable.h, 5
ConsoleTableCreate
ConsoleTable.c, 7
ConsoleTable.h, 5
ConsoleTableDelete
ConsoleTable.c, 7
ConsoleTable.h, 5
ConsoleTableFillCell
ConsoleTable.c, 7
ConsoleTable.h, 5
ConsoleTableFillCellHelper
ConsoleTable.c, 7
ConsoleTablePrintHeader
ConsoleTable.c, 7
ConsoleTable.h, 5
ConsoleTableSetColDelimiter
ConsoleTable.c, 8
ConsoleTable.h, 5
ConsoleTableSetLineAppend
ConsoleTable.c, 8
ConsoleTable.h, 6
ConsoleTableSetLinePrepend
ConsoleTable.c, 8
ConsoleTable.h, 6
ConsoleTableSetPadding
ConsoleTable.c, 8
ConsoleTable.h, 6
ConsoleTableT
ConsoleTable.h, 5

fields
ConsoleTable, 2

include/ConsoleTable.h, 3

lineAppend
ConsoleTable, 2
linePrepend
ConsoleTable, 2

name
ConsoleTable::Field, 3
numFields
ConsoleTable, 2

padding
ConsoleTable, 2

src/ConsoleTable.c, 6

width
ConsoleTable::Field, 3