drpm

Generated by Doxygen 1.8.6

Fri Feb 13 2015 17:50:56

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Data Structure Documentation

3.1 compstrm Struct Reference

Data Fields

- char * **data**
- size_t **data_len**
- size_t **data_pos**
- int **filedesc**

- int(* **read_chunk**)(struct compstrm *)

  void(* **finish**)(struct compstrm *)

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

  - drpm_compstrm.c

3.2 drpm Struct Reference

Data Fields

- char * **filename**
- uint32_t **version**
- uint32_t **type**
- uint32_t **comp**
- char * **sequence**
- char * **src_nevr**
- char * **tgt_nevr**
- uint32_t **tgt_size**
- char **tgt_md5** [MD5_BYTES *2+1]

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

- drpm_private.h

Chapter 4

File Documentation

4.1 drpm.h File Reference

Macros

errors

- #define DRPM_ERR_OK 0
- #define DRPM_ERR_MEMORY 1
- #define DRPM_ERR_ARGS 2
- #define DRPM_ERR_IO 3
- #define DRPM_ERR_FORMAT 4
- #define DRPM_ERR_CONFIG 5
- #define DRPM_ERR_OTHER 6

delta types

- #define DRPM_TYPE_STANDARD 0
- #define DRPM_TYPE_RPMONLY 1

compression types

- #define DRPM_COMP_NONE 0
- #define DRPM_COMP_GZIP 1
- #define DRPM_COMP_BZIP2 2
- #define DRPM_COMP_LZMA 3
- #define DRPM_COMP_XZ 4

info tags

- #define DRPM_TAG_FILENAME 0
- #define DRPM_TAG_VERSION 1
- #define DRPM_TAG_TYPE 2
- #define DRPM_TAG_COMP 3
- #define DRPM_TAG_SEQUENCE 4
- #define DRPM_TAG_SRCNEVR 5
- #define DRPM_TAG_TGTNEVR 6
- #define DRPM_TAG_TGTSIZE 7
- #define DRPM_TAG_TGTMD5 8

Typedefs

- typedef struct drpm drpm

Functions

- int drpm_destroy (drpm **delta)

  Frees memory pointed to by `*delta` and sets `*delta` to `NULL`.
- int drpm_get_uint (drpm *delta, int tag, unsigned *target)

  Fetches information representable as an unsigned integer.
- int drpm_get_string (drpm *delta, int tag, char **target)

  Fetches information representable as a string.
- int drpm_read (drpm **delta, const char *filename)

  Reads information from a deltarpm package `filename` into `*delta`.

4.1.1 Macro Definition Documentation

4.1.1.1 #define DRPM_COMP_BZIP2 2

bzip2

4.1.1.2 #define DRPM_COMP_GZIP 1

gzip

4.1.1.3 #define DRPM_COMP_LZMA 3

lzma

4.1.1.4 #define DRPM_COMP_NONE 0

no compression

4.1.1.5 #define DRPM_COMP_XZ 4

xz

4.1.1.6 #define DRPM_ERR_ARGS 2

bad arguments

4.1.1.7 #define DRPM_ERR_CONFIG 5

misconfigured external library

4.1.1.8 #define DRPM_ERR_FORMAT 4

wrong file format

4.1.1.9 #define DRPM_ERR_IO 3

I/O error

4.1.1.10 #define DRPM_ERR_MEMORY 1

memory allocation error

4.1.1.11 #define DRPM_ERR_OK 0

no error

4.1.1.12 #define DRPM_ERR_OTHER 6

unspecified/unknown error

4.1.1.13 #define DRPM_TAG_COMP 3

compression type

4.1.1.14 #define DRPM_TAG_FILENAME 0

file name

4.1.1.15 #define DRPM_TAG_SEQUENCE 4

sequence

4.1.1.16 #define DRPM_TAG_SRCNEVR 5

source NEVR (name-epoch:version-release)

4.1.1.17 #define DRPM_TAG_TGTMD5 8

target MD5

4.1.1.18 #define DRPM_TAG_TGTNEVR 6

target NEVR (name-epoch:version-release)

4.1.1.19 #define DRPM_TAG_TGTSIZE 7

target size

4.1.1.20 #define DRPM_TAG_TYPE 2

delta type

4.1.1.21 #define DRPM_TAG_VERSION 1

version

4.1.1.22 #define DRPM_TYPE_RPMONLY 1

rpm-only deltarpm

4.1.1.23 #define DRPM_TYPE_STANDARD 0

standard deltarpm

4.1.2 Typedef Documentation

4.1.2.1 typedef struct drpm drpm

abstract data type of deltarpm structure

4.1.3 Function Documentation

4.1.3.1 int drpm_destroy (drpm ** *delta*)

Frees memory pointed to by `*delta` and sets `*delta` to `NULL`.

Example of usage:

```
int error = drpm_destroy(&delta);
if (error != DRPM_ERR_OK)
   return error;
```

Parameters

out	*delta*	deltarpm that is to be freed

Returns

error number

Warning

Must be preceded by call to drpm_read().

4.1.3.2 int drpm_get_string (drpm * *delta*, int *tag*, char ** *target*)

Fetches information representable as a string.

Fetches string-type information identified by `tag` from `delta`, copies it to space previously allocated by the function itself and saves the adress to `*target`.

Example of usage:

```
char *tgt_nevr;
int error = drpm_get_string(delta, DRPM_TAG_TGTNEVR, &tgt_nevr);
if (error != DRPM_ERR_OK)
   return error;
printf("Target NEVR: %s\n", tgt_nevr);
free(tgt_nevr);
```

Parameters

in	*delta*	deltarpm containing required info
in	*tag*	symbolic value identifying which info is required
out	*target*	tagged info will be copied here

Returns

error number

Note

`*target` should be freed manually by the user when no longer needed.

Warning

Must be preceded by call to drpm_read().

4.1.3.3 int drpm_get_uint (drpm * *delta*, int *tag*, unsigned * *target*)

Fetches information representable as an unsigned integer.

Fetches information identified by `tag` from `delta` and copies it to adress pointed to by `target`.

Example of usage:

```
unsigned type;
int error = drpm_get_uint(delta, DRPM_TAG_TYPE, &type);
if (error != DRPM_ERR_OK)
   return error;
printf("This is a %s deltarpm\n", comp_type == DRPM_TYPE_STANDARD ? "standard" : "
      rpm-only");
```

Parameters

in	*delta*	deltarpm containing required info
in	*tag*	symbolic value identifying which info is required
out	*target*	tagged info will be copied here

Returns

error number

Warning

Must be preceded by call to drpm_read().

4.1.3.4 int drpm_read (drpm ** *delta*, const char * *filename*)

Reads information from a deltarpm package `filename` into `*delta`.

Example of usage:

```
drpm *delta;
int error = drpm_read(&delta, argv[1]);
if (error != DRPM_ERR_OK)
   return error;
```

Parameters

out	*delta*	deltarpm to be filled with info
in	*filename*	name of deltarpm file whose data is to be read

Returns

error number

Note

Memory allocated by calling drpm_read() should later be freed by calling drpm_destroy().