

RPM Header Reading

Introduction

This module allows you to read the meta information stored in the headers of a [» RedHat](#) Package Manager ([» RPM](#)) file.

Installing/Configuring

Requirements

The RPMReader extension requires PHP 5.

Installation

This » [PECL](#) extension is not bundled with PHP.

Information for installing this PECL extension may be found in the manual chapter titled [Installation of PECL extensions](#). Additional information such as new releases, downloads, source files, maintainer information, and a CHANGELOG, can be located here: » <http://pecl.php.net/package/rpmreader>.

Runtime Configuration

This extension has no configuration directives defined in *php.ini*.

Resource Types

There is one resource type used by the RPMReader module. The resource is a file pointer which identifies the RPM file with which to work.

Predefined Constants

The constants below are defined by this extension, and will only be available when the extension has either been compiled into PHP or dynamically loaded at runtime.

The following list of constants are used to obtain information using the [rpm_get_tag\(\)](#) function. These constants represent the tag number to be retrieved from the RPM file's header section. Descriptions are given below as to what data the tag number constants reference.

RPMREADER_MINIMUM ([integer](#))

The minimum valid value of any RPM tag number.

RPMREADER_NAME ([integer](#))

The name of the RPM package.

RPMREADER_VERSION ([integer](#))

The version of the RPM package.

RPMREADER_RELEASE ([integer](#))

The release of the RPM package.

RPMREADER_EPOCH ([integer](#))

RPMREADER_SERIAL ([integer](#))

RPMREADER_SUMMARY ([integer](#))

The summary text of the RPM package.

RPMREADER_DESCRIPTION ([integer](#))

The full description text of the RPM package.

RPMREADER_BUILDTIME ([integer](#))

The date and time when the RPM package was built.

RPMREADER_BUILDHOST ([integer](#))

The name of the host on which the RPM package was built.

RPMREADER_INSTALLTIME ([integer](#))

RPMREADER_SIZE ([integer](#))

The size of the RPM package.

RPMREADER_DISTRIBUTION ([integer](#))

RPMREADER_VENDOR ([integer](#))

RPMREADER_GIF ([integer](#))

RPMREADER_XPM ([integer](#))

RPMREADER_LICENSE ([integer](#))

RPMREADER_COPYRIGHT ([integer](#))

RPMREADER_PACKAGER ([integer](#))

RPMREADER_GROUP ([integer](#))

RPMREADER_SOURCE ([integer](#))

RPMREADER_PATCH ([integer](#))

RPMREADER_URL ([integer](#))

RPMREADER_OS ([integer](#))

RPMREADER_ARCH ([integer](#))

RPMREADER_PREIN ([integer](#))

RPMREADER_POSTIN ([integer](#))

RPMREADER_PREUN ([integer](#))

RPMREADER_POSTUN ([integer](#))

RPMREADER_OLDFILENAMES ([integer](#))

The list of files in an RPM package (deprecated format). The correct way is now to use a combination of 3 tags (RPMREADER_BASENAMES, RPMREADER_DIRINDEXES, RPMREADER_DIRNAMES) in what RPM now calls "CompressedFileNames". This tag

is still used in older RPM files that did not use the "CompressedFileNames" method and is maintained for backward compatibility.

RPMREADER_FILESIZES ([integer](#))

RPMREADER_FILESTATES ([integer](#))

RPMREADER_FILEMODES ([integer](#))

RPMREADER_FILERDEVS ([integer](#))

RPMREADER_FILEMTIMES ([integer](#))

RPMREADER_FILEMD5S ([integer](#))

RPMREADER_FILELINKTOS ([integer](#))

RPMREADER_FILEFLAGS ([integer](#))

RPMREADER_FILEUSERNAME ([integer](#))

RPMREADER_FILEGROUPNAME ([integer](#))

RPMREADER_ICON ([integer](#))

RPMREADER_SOURCERPM ([integer](#))

RPMREADER_FILEVERIFYFLAGS ([integer](#))

RPMREADER_ARCHIVESIZE ([integer](#))

RPMREADER_PROVIDENAME ([integer](#))

RPMREADER_PROVIDES ([integer](#))

RPMREADER_REQUIREFLAGS ([integer](#))

RPMREADER_REQUIRENAME ([integer](#))

RPMREADER_REQUIREVERSION ([integer](#))

RPMREADER_CONFLICTFLAGS ([integer](#))

RPMREADER_CONFLICTNAME ([integer](#))

RPMREADER_CONFLICTVERSION ([integer](#))

RPMREADER_EXCLUDEARCH ([integer](#))

RPMREADER_EXCLUDEEOS ([integer](#))

RPMREADER_EXCLUSIVEARCH ([integer](#))

RPMREADER_EXCLUSIVEEOS ([integer](#))

RPMREADER_RPMVERSION ([integer](#))

RPMREADER_TRIGGERSCRIPTS ([integer](#))

RPMREADER_TRIGGERNAME ([integer](#))

RPMREADER_TRIGGERVERSION ([integer](#))

RPMREADER_TRIGGERFLAGS ([integer](#))

RPMREADER_TRIGGERINDEX ([integer](#))

RPMREADER_VERIFYSCRIPT ([integer](#))

RPMREADER_CHANGELOGTIME ([integer](#))

The list of dates from changelog entries.

RPMREADER_CHANGELOGNAME ([integer](#))

The list of changelog entry names.

RPMREADER_CHANGELOGTEXT ([integer](#))

The list of the text from changelog entries.

RPMREADER_PREINPROG ([integer](#))

RPMREADER_POSTINPROG ([integer](#))

RPMREADER_PREUNPROG ([integer](#))

RPMREADER_POSTUNPROG ([integer](#))

RPMREADER_BUILDARCHS ([integer](#))

RPMREADER_OBSOLETE_NAME ([integer](#))

RPMREADER_OBSOLETEES ([integer](#))

RPMREADER_VERIFYSCRIPTPROG ([integer](#))

RPMREADER_TRIGGERSCRIPTPROG ([integer](#))

RPMREADER_COOKIE ([integer](#))

RPMREADER_FILEDEVICES ([integer](#))

RPMREADER_FILEINODES ([integer](#))

RPMREADER_FILELANGS ([integer](#))

RPMREADER_PREFIXES ([integer](#))

RPMREADER_INSTPREFIXES ([integer](#))

RPMREADER_PROVIDEFLAGS ([integer](#))

RPMREADER_PROVIDEVERSION ([integer](#))

RPMREADER_OBSOLETEFLAGS ([integer](#))

RPMREADER_OBSOLETEVERSION ([integer](#))

RPMREADER_DIRINDEXES ([integer](#))

The list of indices that relate directory names to files in the RPM package. This tag is used in conjunction with RPMREADER_BASENAMES and RPMREADER_DIRNAMES to reconstruct filenames in the RPM package stored with the new "CompressedFileNames" method in RPM.

RPMREADER_BASENAMES ([integer](#))

The list of the names of files in the RPM package without path information. This tag is used in conjunction with RPMREADER_DIRINDEXES and RPMREADER_DIRNAMES to reconstruct filenames in the RPM package stored with the new "CompressedFileNames" method in RPM.

RPMREADER_DIRNAMES ([integer](#))

The list of directory names used by files in the RPM package. This tag is used in conjunction with RPMREADER_BASENAMES and RPMREADER_DIRINDEXES to reconstruct filenames in the RPM package stored with the new "CompressedFileNames" method in RPM.

RPMREADER_OPTFLAGS ([integer](#))

RPMREADER_DISTURL ([integer](#))

RPMREADER_PAYLOADFORMAT ([integer](#))

RPMREADER_PAYLOADCOMPRESSOR ([integer](#))

RPMREADER_PAYLOADFLAGS ([integer](#))

RPMREADER_INSTALLCOLOR ([integer](#))

RPMREADER_INSTALLTID ([integer](#))

RPMREADER_REMOVETID ([integer](#))

RPMREADER_RHNPLATFORM ([integer](#))

RPMREADER_PLATFORM ([integer](#))

RPMREADER_PATCHESNAME ([integer](#))

RPMREADER_PATCHESFLAGS ([integer](#))

RPMREADER_PATCHESVERSION ([integer](#))

RPMREADER_CACHECTIME ([integer](#))

RPMREADER_CACHEPKGPATH ([integer](#))

RPMREADER_CACHEPKGSIZE ([integer](#))

RPMREADER_CACHEPKGMTIME ([integer](#))

RPMREADER_FILECOLORS ([integer](#))

RPMREADER_FILECLASS ([integer](#))

RPMREADER_CLASSSDICT ([integer](#))

RPMREADER_FILEDEPENDSX ([integer](#))

RPMREADER_FILEDEPENDSN ([integer](#))

RPMREADER_DEPENDSDICT ([integer](#))

RPMREADER_SOURCEPKGID ([integer](#))

RPMREADER_FILECONTEXTS ([integer](#))

RPMREADER_FSCONTEXTS ([integer](#))

RPMREADER_RECONTEXTS ([integer](#))

RPMREADER_POLICIES ([integer](#))

RPMREADER_MAXIMUM ([integer](#))

The maximum valid value of any RPM tag number.

Examples

Basic usage

This example will open an RPM file and read the name, version, and release from the RPM file, echo the results, and close the RPM file.

Example #1 - Basic RPMReader Example

```
<?php

$filename = "/path/to/file.rpm";

// open file
$rpmmr = rpm_open($filename);

// get "Name" tag
$name = rpm_get_tag($rpmmr, RPMREADER_NAME);

// get "Version" tag
$ver = rpm_get_tag($rpmmr, RPMREADER_VERSION);

// get "Release" tag
$rel = rpm_get_tag($rpmmr, RPMREADER_RELEASE);

echo "$name-$ver-$rel<br>\n";

// close file
rpm_close($rpmmr);

?>
```

RPM Reader Functions

rpm_close

rpm_close -- Closes an RPM file

Description

bool **rpm_close** (resource \$rpmr)

[rpm_close\(\)](#) will close an RPM file pointer.

Parameters

rpmr

A file pointer resource successfully opened by [rpm_open\(\)](#).

Return Values

Returns **TRUE** on success or **FALSE** on failure.

Examples

Example #2 - [rpm_close\(\)](#) example

```
<?php

$file = "/path/to/file.rpm";
$rpmr = rpm_open($file);

rpm_close($rpmr);

?>
```

See Also

- [rpm_open\(\)](#)

rpm_get_tag

rpm_get_tag -- Retrieves a header tag from an RPM file

Description

mixed rpm_get_tag (resource \$rpmr, int \$tagnum)

[rpm_get_tag\(\)](#) will retrieve a given tag from the RPM file's header and return it.

Parameters

rpmr

A file pointer resource successfully opened by [rpm_open\(\)](#).

tagnum

The tag number to retrieve from the RPM header. This value can be specified using the list of constants defined by this module.

Return Values

The return value can be of various types depending on the *tagnum* supplied to the function.

Examples

Example #3 - [rpm_get_tag\(\)](#) example

```
<?php

$file = "/path/to/file.rpm";
$rpmr = rpm_open($file);

$name = rpm_get_tag($rpmr, RPMREADER_NAME);
echo "$name<br>\n";

rpm_close($rpmr);

?>
```

See Also

- [rpm_open\(\)](#)
- [rpm_close\(\)](#)

rpm_is_valid

rpm_is_valid -- Tests a filename for validity as an RPM file

Description

bool **rpm_is_valid** (string \$filename)

[rpm_is_valid\(\)](#) will test an RPM file for validity as an RPM file. This is not the same as [rpm_open\(\)](#) as it only checks the file for validity but does not return a file pointer to be used by further functions.

Parameters

filename

The filename of the RPM file you wish to check for validity.

Return Values

Returns **TRUE** on success or **FALSE** on failure.

Examples

Example #4 - [rpm_is_valid\(\)](#) example

```
<?php

$file = "/path/to/file.rpm";

if (rpm_is_valid($file)) {
    echo "File is recognized as an RPM file.<br>\n";
}
else {
    echo "File is not recognized as an RPM file.<br>\n";
}

?>
```

rpm_open

rpm_open -- Opens an RPM file

Description

resource **rpm_open** (string *\$filename*)

[rpm_open\(\)](#) will open an RPM file and will determine if the file is a valid RPM file.

Parameters

filename

The filename of the RPM file you wish to open.

Return Values

If the open succeeds, then [rpm_open\(\)](#) will return a file pointer resource to the newly opened file. On error, the function will return **FALSE**.

Examples

Example #5 - [rpm_open\(\)](#) example

```
<?php
$file = "/path/to/file.rpm";
$rpmr = rpm_open($file);

rpm_close($rpmr);

?>
```

See Also

- [rpm_close\(\)](#)

rpm_version

rpm_version -- Returns a string representing the current version of the rpmreader extension

Description

string **rpm_version** (void)

[rpm_version\(\)](#) will return the current version of the rpmreader extension.

Return Values

[rpm_version\(\)](#) will return a string representing the rpmreader version currently loaded in PHP.

Examples

Example #6 - rpm_version() example
<pre><?php \$rpmpv_ver = rpm_version(); echo "\$rpmpv_ver
\n"; ?></pre>