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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'OPENSSL_version_build_metadata.3oss1' command

```
$ man OPENSSL_version_build_metadata.3oss1
```

```
OPENSSL_VERSION(3oss1)      OpenSSL      OPENSSL_VERSION(3oss1)
```

NAME

```
OPENSSL_VERSION_MAJOR, OPENSSL_VERSION_MINOR, OPENSSL_VERSION_PATCH,  
OPENSSL_VERSION_PRE_RELEASE, OPENSSL_VERSION_BUILD_METADATA,  
OPENSSL_VERSION_TEXT, OPENSSL_VERSION_PREREQ, OPENSSL_version_major,  
OPENSSL_version_minor, OPENSSL_version_patch,  
OPENSSL_version_pre_release, OPENSSL_version_build_metadata,  
OpenSSL_version, OPENSSL_VERSION_NUMBER, OpenSSL_version_num,  
OPENSSL_info - get OpenSSL version number and other information
```

SYNOPSIS

```
#include <openssl/opensslv.h>  
  
#define OPENSSL_VERSION_MAJOR x  
#define OPENSSL_VERSION_MINOR y  
#define OPENSSL_VERSION_PATCH z  
  
/* The definitions here are typical release values */  
#define OPENSSL_VERSION_PRE_RELEASE ""  
#define OPENSSL_VERSION_BUILD_METADATA ""  
  
#define OPENSSL_VERSION_TEXT "OpenSSL x.y.z xx XXX xxxx"
```

```

#define OPENSLL_VERSION_PREREQ(maj,min)

#include <openssl/crypto.h>

unsigned int OPENSLL_version_major(void);
unsigned int OPENSLL_version_minor(void);
unsigned int OPENSLL_version_patch(void);
const char *OPENSLL_version_pre_release(void);
const char *OPENSLL_version_build_metadata(void);

const char *OpenSSL_version(int t);

const char *OPENSLL_info(int t);

/* from openssl/opensslv.h */
#define OPENSLL_VERSION_NUMBER 0xnnnnnnnnL

/* from openssl/crypto.h */
unsigned long OpenSSL_version_num();

```

DESCRIPTION

Macros

The three macros `OPENSLL_VERSION_MAJOR`, `OPENSLL_VERSION_MINOR` and `OPENSLL_VERSION_PATCH` represent the three parts of a version identifier, MAJOR.MINOR.PATCH.

The macro `OPENSLL_VERSION_PRE_RELEASE` is an added bit of text that indicates that this is a pre-release version, such as "-dev" for an ongoing development snapshot or "-alpha3" for an alpha release. The value must be a string.

The macro `OPENSLL_VERSION_BUILD_METADATA` is extra information, reserved

for other parties, such as "+fips", or "+vendor.1"). The OpenSSL project will not touch this macro (will leave it an empty string). The value must be a string.

OPENSSL_VERSION_STR is a convenience macro to get the short version identifier string, "MAJOR.MINOR.PATCH".

OPENSSL_FULL_VERSION_STR is a convenience macro to get the longer version identifier string, which combines OPENSSL_VERSION_STR, OPENSSL_VERSION_PRE_RELEASE and OPENSSL_VERSION_BUILD_METADATA.

OPENSSL_VERSION_TEXT is a convenience macro to get a full descriptive version text, which includes OPENSSL_FULL_VERSION_STR and the release date.

OPENSSL_VERSION_PREREQ is a useful macro for checking whether the OpenSSL version for the headers in use is at least at the given prerequisite major (maj) and minor (min) number or not. It will evaluate to true if the header version number (OPENSSL_VERSION_MAJOR.OPENSSL_VERSION_MINOR) is greater than or equal to maj.min.

OPENSSL_VERSION_NUMBER is a combination of the major, minor and patch version into a single integer 0xMNN00PP0L, where:

M is the number from OPENSSL_VERSION_MAJOR, in hexadecimal notation

NN is the number from OPENSSL_VERSION_MINOR, in hexadecimal notation

PP is the number from OPENSSL_VERSION_PATCH, in hexadecimal notation

Functions

OPENSSL_version_major(), OPENSSL_version_minor(),

OPENSSL_version_patch(), OPENSSL_version_pre_release(), and OPENSSL_version_build_metadata() return the values of the macros above for the build of the library, respectively.

OpenSSL_version() returns different strings depending on t:

OPENSSL_VERSION

The value of OPENSSL_VERSION_TEXT

OPENSSL_VERSION_STRING

The value of OPENSSL_VERSION_STR

OPENSSL_FULL_VERSION_STRING

The value of OPENSSL_FULL_VERSION_STR

OPENSSL_CFLAGS

The compiler flags set for the compilation process in the form "compiler: ..." if available, or "compiler: information not available" otherwise.

OPENSSL_BUILT_ON

The date of the build process in the form "built on: ..." if available or "built on: date not available" otherwise. The date would not be available in a reproducible build, for example.

OPENSSL_PLATFORM

The "Configure" target of the library build in the form "platform: ..." if available, or "platform: information not available" otherwise.

OPENSSL_DIR

The OPENSSLDIR setting of the library build in the form "OPENSSLDIR: ..." if available, or "OPENSSLDIR: N/A" otherwise.

OPENSSL_ENGINES_DIR

The ENGINESDIR setting of the library build in the form

"ENGINESDIR: "..."" if available, or "ENGINESDIR: N/A" otherwise.

This option is deprecated in OpenSSL 3.0.

OPENSSL_MODULES_DIR

The MODULESDIR setting of the library build in the form

"MODULESDIR: "..."" if available, or "MODULESDIR: N/A" otherwise.

OPENSSL_CPU_INFO

The current OpenSSL cpu settings. This is the current setting of the cpu capability flags. It is usually automatically configured but may be set via an environment variable. The value has the same syntax as the environment variable. For x86 the string looks like "CPUINFO: OPENSSL_ia32cap=0x123:0x456" or "CPUINFO: N/A" if not available.

For an unknown t, the text "not available" is returned.

OPENSSL_info() also returns different strings depending on t:

OPENSSL_INFO_CONFIG_DIR

The configured "OPENSSLDIR", which is the default location for OpenSSL configuration files.

OPENSSL_INFO_ENGINES_DIR

The configured "ENGINESDIR", which is the default location for OpenSSL engines.

OPENSSL_INFO_MODULES_DIR

The configured "MODULESDIR", which is the default location for dynamically loadable OpenSSL modules other than engines.

OPENSSL_INFO_DSO_EXTENSION

The configured dynamically loadable module extension.

OPENSSL_INFO_DIR_FILENAME_SEPARATOR

The separator between a directory specification and a filename.

Note that on some operating systems, this is not the same as the separator between directory elements.

OPENSSL_INFO_LIST_SEPARATOR

The OpenSSL list separator. This is typically used in strings that are lists of items, such as the value of the environment variable \$PATH on Unix (where the separator is ":") or "%PATH%" on Windows (where the separator is ";").

OPENSSL_INFO_CPU_SETTINGS

The current OpenSSL cpu settings. This is the current setting of the cpu capability flags. It is usually automatically configured but may be set via an environment variable. The value has the same syntax as the environment variable. For x86 the string looks like "OPENSSL_ia32cap=0x123:0x456".

For an unknown t, NULL is returned.

OpenSSL_version_num() returns the value of OPENSSL_VERSION_NUMBER.

RETURN VALUES

OpenSSL_version_major(), OpenSSL_version_minor() and OpenSSL_version_patch() return the version number parts as integers.

OpenSSL_version_pre_release() and OpenSSL_version_build_metadata() return the values of OPENSSL_VERSION_PRE_RELEASE and

OPENSSL_VERSION_BUILD_METADATA respectively as constant strings. For

any of them that is undefined, the empty string is returned.

OpenSSL_version() returns constant strings.

SEE ALSO

crypto(7)

HISTORY

The macros and functions described here were added in OpenSSL 3.0, except for OPENSSL_VERSION_NUMBER and OpenSSL_version_num().

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