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***Rocky Enterprise Linux 9.2 Manual Pages on command 'EVP\_default\_properties\_enable\_fips.3ossl'***

***\$ man EVP\_default\_properties\_enable\_fips.3ossl***

EVP\_SET\_DEFAULT\_PROPERTIES(3ossl) OpenSSL EVP\_SET\_DEFAULT\_PROPERTIES(3ossl)

**NAME**

EVP\_set\_default\_properties, EVP\_default\_properties\_enable\_fips, EVP\_default\_properties\_is\_fips\_enabled - Set default properties for future algorithm fetches

**SYNOPSIS**

```
#include <openssl/evp.h>
```

```
int EVP_set_default_properties(OSSL_LIB_CTX *libctx, const char *propq);  
int EVP_default_properties_enable_fips(OSSL_LIB_CTX *libctx, int enable);  
int EVP_default_properties_is_fips_enabled(OSSL_LIB_CTX *libctx);
```

**DESCRIPTION**

EVP\_set\_default\_properties() sets the default properties for all future EVP algorithm fetches, implicit as well as explicit. See "ALGORITHM FETCHING" in crypto(7) for information about implicit and explicit

fetching.

`EVP_set_default_properties` stores the properties given with the string `propq` among the EVP data that's been stored in the library context given with `libctx` (NULL signifies the default library context).

Any previous default property for the specified library context will be dropped.

`EVP_default_properties_enable_fips()` sets the 'fips=yes' to be a default property if `enable` is non zero, otherwise it clears 'fips' from the default property query for the given `libctx`. It merges the fips default property query with any existing query strings that have been set via `EVP_set_default_properties()`.

`EVP_default_properties_is_fips_enabled()` indicates if 'fips=yes' is a default property for the given `libctx`.

## NOTES

`EVP_set_default_properties()` and `EVP_default_properties_enable_fips()` are not thread safe. They are intended to be called only during the initialisation phase of a `libctx`.

## RETURN VALUES

`EVP_set_default_properties()` and `EVP_default_properties_enable_fips()` return 1 on success, or 0 on failure. An error is placed on the error stack if a failure occurs.

`EVP_default_properties_is_fips_enabled()` returns 1 if the 'fips=yes' default property is set for the given `libctx`, otherwise it returns 0.

## SEE ALSO

`EVP_MD_fetch(3)`

## HISTORY

The functions described here were added in OpenSSL 3.0.

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