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***Rocky Enterprise Linux 9.2 Manual Pages on command 'OPENSSL\_gmtime\_diff.3ossl'***

***\$ man OPENSSL\_gmtime\_diff.3ossl***

OPENSSL\_GMTIME(3ossl)      OpenSSL      OPENSSL\_GMTIME(3ossl)

**NAME**

OPENSSL\_gmtime, OPENSSL\_gmtime\_adj, OPENSSL\_gmtime\_diff -  
platform-agnostic OpenSSL time routines

**SYNOPSIS**

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

```
struct tm *OPENSSL_gmtime(const time_t *timer, struct tm *result);  
int OPENSSL_gmtime_adj(struct tm *tm, int offset_day, long offset_sec);  
int OPENSSL_gmtime_diff(int *pday, int *psec,  
                        const struct tm *from, const struct tm *to);
```

**DESCRIPTION**

OPENSSL\_gmtime() returns the UTC time specified by timer into the provided result argument.

OPENSSL\_gmtime\_adj() adds the offsets in offset\_day and offset\_sec to tm.

OPENSSL\_gmtime\_diff() calculates the difference between from and to.

## NOTES

It is an error to call OPENSSL\_gmtime() with result equal to NULL. The contents of the time\_t given by timer are stored into the result.

Calling with timer equal to NULL means use the current time.

OPENSSL\_gmtime\_adj() converts tm into a days and seconds value, adds the offsets, then converts back into a struct tm specified by tm. Leap seconds are not considered.

OPENSSL\_gmtime\_diff() calculates the difference between the two struct tm structures from and to. The difference in days is placed into \*pday, the remaining seconds are placed to \*psec. The value in \*psec will be less than the number of seconds per day (3600). Leap seconds are not considered.

## RETURN VALUES

OPENSSL\_gmtime() returns NULL on error, or result on success.

OPENSSL\_gmtime\_adj() and OPENSSL\_gmtime\_diff() return 0 on error, and 1 on success.

## HISTORY

OPENSSL\_gmtime(), OPENSSL\_gmtime\_adj() and OPENSSL\_gmtime\_diff() have been in OpenSSL since 1.0.0.

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3.0.7                    2023-07-13            OPENSSELMGMTIME(3ossl)