



Full credit is given to the above companies including the OS that this PDF file was generated!

Red Hat Enterprise Linux Release 9.2 Manual Pages on 'OPENSSL_gmtime_adj.3ossl' command

\$ man OPENSSL_gmtime_adj.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.

COPYRIGHT

Copyright 2022 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the Apache License 2.0 (the "License"). You may not use this file except in compliance with the License. You can obtain a copy in the file `LICENSE` in the source distribution or at <https://www.openssl.org/source/license.html>.

