



## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'EVP\_blake2b512.3oss1' command***

***\$ man EVP\_blake2b512.3oss1***

EVP\_BLAKE2B512(3oss1)      OpenSSL      EVP\_BLAKE2B512(3oss1)

### NAME

EVP\_blake2b512, EVP\_blake2s256 - BLAKE2 For EVP

### SYNOPSIS

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

```
const EVP_MD *EVP_blake2b512(void);
```

```
const EVP_MD *EVP_blake2s256(void);
```

### DESCRIPTION

BLAKE2 is an improved version of BLAKE, which was submitted to the NIST SHA-3 algorithm competition. The BLAKE2s and BLAKE2b algorithms are described in RFC 7693.

EVP\_blake2s256()

The BLAKE2s algorithm that produces a 256-bit output from a given input.

EVP\_blake2b512()

The BLAKE2b algorithm that produces a 512-bit output from a given input.

## RETURN VALUES

These functions return a `EVP_MD` structure that contains the implementation of the message digest. See `EVP_MD_meth_new(3)` for details of the `EVP_MD` structure.

## CONFORMING TO

RFC 7693.

## NOTES

While the BLAKE2b and BLAKE2s algorithms supports a variable length digest, this implementation outputs a digest of a fixed length (the maximum length supported), which is 512-bits for BLAKE2b and 256-bits for BLAKE2s.

## SEE ALSO

`evp(7)`, `EVP_DigestInit(3)`

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