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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'EVP\_sha224.3oss!' command**

**\$ man EVP\_sha224.3oss!**

EVP\_SHA224(3oss!)                  OpenSSL                  EVP\_SHA224(3oss!)

### NAME

EVP\_sha224, EVP\_sha256, EVP\_sha512\_224, EVP\_sha512\_256, EVP\_sha384,  
EVP\_sha512 - SHA-2 For EVP

### SYNOPSIS

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

```
const EVP_MD *EVP_sha224(void);  
const EVP_MD *EVP_sha256(void);  
const EVP_MD *EVP_sha512_224(void);  
const EVP_MD *EVP_sha512_256(void);  
const EVP_MD *EVP_sha384(void);  
const EVP_MD *EVP_sha512(void);
```

### DESCRIPTION

SHA-2 (Secure Hash Algorithm 2) is a family of cryptographic hash functions standardized in NIST FIPS 180-4, first published in 2001.

EVP\_sha224(), EVP\_sha256(), EVP\_sha512\_224, EVP\_sha512\_256,  
EVP\_sha384(), EVP\_sha512()

The SHA-2 SHA-224, SHA-256, SHA-512/224, SHA512/256, SHA-384 and

SHA-512 algorithms, which generate 224, 256, 224, 256, 384 and 512 bits respectively of output from a given input.

The two algorithms: SHA-512/224 and SHA512/256 are truncated forms of the SHA-512 algorithm. They are distinct from SHA-224 and SHA-256 even though their outputs are of the same size.

## 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

NIST FIPS 180-4.

## SEE ALSO

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

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`EVP_SHA224(3openssl)`