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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'DSA\_do\_sign.3oss1' command**

**\$ man DSA\_do\_sign.3oss1**

DSA\_DO\_SIGN(3oss1)          OpenSSL          DSA\_DO\_SIGN(3oss1)

### NAME

DSA\_do\_sign, DSA\_do\_verify - raw DSA signature operations

### SYNOPSIS

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

The following functions have been deprecated since OpenSSL 3.0, and can be hidden entirely by defining OPENSSL\_API\_COMPAT with a suitable version value, see openssl\_user\_macros(7):

```
DSA_SIG *DSA_do_sign(const unsigned char *dgst, int dlen, DSA *dsa);
```

```
int DSA_do_verify(const unsigned char *dgst, int dgst_len,  
                  DSA_SIG *sig, DSA *dsa);
```

### DESCRIPTION

All of the functions described on this page are deprecated.

Applications should instead use EVP\_PKEY\_sign\_init(3), EVP\_PKEY\_sign(3), EVP\_PKEY\_verify\_init(3) and EVP\_PKEY\_verify(3).

DSA\_do\_sign() computes a digital signature on the len byte message

digest dgst using the private key dsa and returns it in a newly allocated DSA\_SIG structure.

DSA\_sign\_setup(3) may be used to precompute part of the signing operation in case signature generation is time-critical.

DSA\_do\_verify() verifies that the signature sig matches a given message digest dgst of size len. dsa is the signer's public key.

## RETURN VALUES

DSA\_do\_sign() returns the signature, NULL on error. DSA\_do\_verify() returns 1 for a valid signature, 0 for an incorrect signature and -1 on error. The error codes can be obtained by ERR\_get\_error(3).

## SEE ALSO

DSA\_new(3), ERR\_get\_error(3), RAND\_bytes(3), DSA\_SIG\_new(3), DSA\_sign(3)

## HISTORY

All of these functions were deprecated in OpenSSL 3.0.

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