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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'DSA\_SIG\_get0.3ossl'***

***\$ man DSA\_SIG\_get0.3ossl***

DSA\_SIG\_NEW(3ossl)            OpenSSL            DSA\_SIG\_NEW(3ossl)

#### NAME

DSA\_SIG\_get0, DSA\_SIG\_set0, DSA\_SIG\_new, DSA\_SIG\_free - allocate and free DSA signature objects

#### SYNOPSIS

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

DSA_SIG *DSA_SIG_new(void);

void DSA_SIG_free(DSA_SIG *a);

void DSA_SIG_get0(const DSA_SIG *sig, const BIGNUM **pr, const BIGNUM **ps);

int DSA_SIG_set0(DSA_SIG *sig, BIGNUM *r, BIGNUM *s);
```

#### DESCRIPTION

DSA\_SIG\_new() allocates an empty DSA\_SIG structure.

DSA\_SIG\_free() frees the DSA\_SIG structure and its components. The values are erased before the memory is returned to the system.

DSA\_SIG\_get0() returns internal pointers to the r and s values contained in sig.

The r and s values can be set by calling DSA\_SIG\_set0() and passing the new values for r and s as parameters to the function. Calling this

function transfers the memory management of the values to the DSA\_SIG object, and therefore the values that have been passed in should not be freed directly after this function has been called.

## RETURN VALUES

If the allocation fails, DSA\_SIG\_new() returns NULL and sets an error code that can be obtained by ERR\_get\_error(3). Otherwise it returns a pointer to the newly allocated structure.

DSA\_SIG\_free() returns no value.

DSA\_SIG\_set0() returns 1 on success or 0 on failure.

## SEE ALSO

EVP\_PKEY\_new(3), EVP\_PKEY\_free(3), EVP\_PKEY\_get\_bn\_param(3),  
ERR\_get\_error(3)

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3.0.7                      2023-07-13                      DSA\_SIG\_NEW(3ossl)