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

$ man DSA_SIG_free.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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