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Rocky Enterprise Linux 9.2 Manual Pages on command 'X509_ALGOR_dup.3ossl'

\$ man X509_ALGOR_dup.3ossl

X509_ALGOR_DUP(3ossl) OpenSSL X509_ALGOR_DUP(3ossl)

NAME

X509_ALGOR_dup, X509_ALGOR_set0, X509_ALGOR_get0, X509_ALGOR_set_md,
X509_ALGOR_cmp, X509_ALGOR_copy - AlgorithmIdentifier functions

SYNOPSIS

```
#include <openssl/x509.h>
```

```
X509_ALGOR *X509_ALGOR_dup(X509_ALGOR *alg);  
int X509_ALGOR_set0(X509_ALGOR *alg, ASN1_OBJECT *aobj, int ptype, void *pval);  
void X509_ALGOR_get0(const ASN1_OBJECT **paobj, int *pptype,  
                      const void **ppval, const X509_ALGOR *alg);  
void X509_ALGOR_set_md(X509_ALGOR *alg, const EVP_MD *md);  
int X509_ALGOR_cmp(const X509_ALGOR *a, const X509_ALGOR *b);  
int X509_ALGOR_copy(X509_ALGOR *dest, const X509_ALGOR *src);
```

DESCRIPTION

X509_ALGOR_dup() returns a copy of alg.

X509_ALGOR_set0() sets the algorithm OID of alg to aobj and the associated parameter type to ptype with value pval. If ptype is V_ASN1_UNDEF the parameter is omitted, otherwise ptype and pval have the same meaning as the type and value parameters to ASN1_TYPE_set(). All the supplied parameters are used internally so must NOT be freed after this call.

X509_ALGOR_get0() is the inverse of X509_ALGOR_set0(): it returns the algorithm OID in *paobj and the associated parameter in *pptype and *ppval from the AlgorithmIdentifier alg.

X509_ALGOR_set_md() sets the AlgorithmIdentifier alg to appropriate values for the message digest md.

X509_ALGOR_cmp() compares a and b and returns 0 if they have identical encodings and nonzero otherwise.

X509_ALGOR_copy() copies the source values into the dest structs; making a duplicate of each (and free any thing pointed to from within *dest).

RETURN VALUES

X509_ALGOR_dup() returns a valid X509_ALGOR structure or NULL if an error occurred.

X509_ALGOR_set0() and X509_ALGOR_copy() return 1 on success or 0 on error.

X509_ALGOR_get0() and X509_ALGOR_set_md() return no values.

X509_ALGOR_cmp() returns 0 if the two parameters have identical

encodings and nonzero otherwise.

HISTORY

The X509_ALGOR_copy() was added in 1.1.1e.

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