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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'EVP_PKEY_asn1_find.3oss1' command

\$ man EVP_PKEY_asn1_find.3oss1

EVP_PKEY_ASN1_GET_COUNT(3oss1) OpenSSL EVP_PKEY_ASN1_GET_COUNT(3oss1)

NAME

EVP_PKEY_asn1_find, EVP_PKEY_asn1_find_str, EVP_PKEY_asn1_get_count,
EVP_PKEY_asn1_get0, EVP_PKEY_asn1_get0_info - enumerate public key
ASN.1 methods

SYNOPSIS

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

```
int EVP_PKEY_asn1_get_count(void);
```

```
const EVP_PKEY_ASN1_METHOD *EVP_PKEY_asn1_get0(int idx);
```

```
const EVP_PKEY_ASN1_METHOD *EVP_PKEY_asn1_find(ENGINE **pe, int type);
```

```
const EVP_PKEY_ASN1_METHOD *EVP_PKEY_asn1_find_str(ENGINE **pe,  
                                                    const char *str, int len);
```

```
int EVP_PKEY_asn1_get0_info(int *ppkey_id, int *pkey_base_id,  
                            int *ppkey_flags, const char **pinfo,  
                            const char **ppem_str,  
                            const EVP_PKEY_ASN1_METHOD *ameth);
```

DESCRIPTION

EVP_PKEY_asn1_count() returns a count of the number of public key ASN.1

methods available: it includes standard methods and any methods added

by the application.

`EVP_PKEY_asn1_get0()` returns the public key ASN.1 method idx. The value of idx must be between zero and `EVP_PKEY_asn1_get_count() - 1`.

`EVP_PKEY_asn1_find()` looks up the `EVP_PKEY_ASN1_METHOD` with NID type. If `pe` isn't NULL, then it will look up an engine implementing a `EVP_PKEY_ASN1_METHOD` for the NID type and return that instead, and also set `*pe` to point at the engine that implements it.

`EVP_PKEY_asn1_find_str()` looks up the `EVP_PKEY_ASN1_METHOD` with PEM type string `str`. Just like `EVP_PKEY_asn1_find()`, if `pe` isn't NULL, then it will look up an engine implementing a `EVP_PKEY_ASN1_METHOD` for the NID type and return that instead, and also set `*pe` to point at the engine that implements it.

`EVP_PKEY_asn1_get0_info()` returns the public key ID, base public key ID (both NIDs), any flags, the method description and PEM type string associated with the public key ASN.1 method `*ameth`.

`EVP_PKEY_asn1_count()`, `EVP_PKEY_asn1_get0()`, `EVP_PKEY_asn1_find()` and `EVP_PKEY_asn1_find_str()` are not thread safe, but as long as all `EVP_PKEY_ASN1_METHOD` objects are added before the application gets threaded, using them is safe. See `EVP_PKEY_asn1_add0(3)`.

RETURN VALUES

`EVP_PKEY_asn1_count()` returns the number of available public key methods.

`EVP_PKEY_asn1_get0()` return a public key method or NULL if idx is out of range.

`EVP_PKEY_asn1_get0_info()` returns 0 on failure, 1 on success.

SEE ALSO

EVP_PKEY_asn1_new(3), EVP_PKEY_asn1_add0(3)

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