



*Full credit is given to the above companies including the OS that this PDF file was generated!*

***Rocky Enterprise Linux 9.2 Manual Pages on command 'BN\_get\_rfc3526\_prime\_8192.3ossl'***

***\$ man BN\_get\_rfc3526\_prime\_8192.3ossl***

DH\_GET\_1024\_160(3ossl)          OpenSSL          DH\_GET\_1024\_160(3ossl)

**NAME**

DH\_get\_1024\_160, DH\_get\_2048\_224, DH\_get\_2048\_256,  
BN\_get0\_nist\_prime\_192, BN\_get0\_nist\_prime\_224, BN\_get0\_nist\_prime\_256,  
BN\_get0\_nist\_prime\_384, BN\_get0\_nist\_prime\_521,  
BN\_get\_rfc2409\_prime\_768, BN\_get\_rfc2409\_prime\_1024,  
BN\_get\_rfc3526\_prime\_1536, BN\_get\_rfc3526\_prime\_2048,  
BN\_get\_rfc3526\_prime\_3072, BN\_get\_rfc3526\_prime\_4096,  
BN\_get\_rfc3526\_prime\_6144, BN\_get\_rfc3526\_prime\_8192 - Create  
standardized public primes or DH pairs

**SYNOPSIS**

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

const BIGNUM *BN_get0_nist_prime_192(void);
const BIGNUM *BN_get0_nist_prime_224(void);
const BIGNUM *BN_get0_nist_prime_256(void);
```

```
const BIGNUM *BN_get0_nist_prime_384(void);
```

```
const BIGNUM *BN_get0_nist_prime_521(void);
```

```
BIGNUM *BN_get_rfc2409_prime_768(BIGNUM *bn);
```

```
BIGNUM *BN_get_rfc2409_prime_1024(BIGNUM *bn);
```

```
BIGNUM *BN_get_rfc3526_prime_1536(BIGNUM *bn);
```

```
BIGNUM *BN_get_rfc3526_prime_2048(BIGNUM *bn);
```

```
BIGNUM *BN_get_rfc3526_prime_3072(BIGNUM *bn);
```

```
BIGNUM *BN_get_rfc3526_prime_4096(BIGNUM *bn);
```

```
BIGNUM *BN_get_rfc3526_prime_6144(BIGNUM *bn);
```

```
BIGNUM *BN_get_rfc3526_prime_8192(BIGNUM *bn);
```

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)`:

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

```
DH *DH_get_1024_160(void);
```

```
DH *DH_get_2048_224(void);
```

```
DH *DH_get_2048_256(void);
```

## DESCRIPTION

`DH_get_1024_160()`, `DH_get_2048_224()`, and `DH_get_2048_256()` each return a DH object for the IETF RFC 5114 value. These functions are deprecated. Applications should instead use `EVP_PKEY_CTX_set_dh_rfc5114()` and `EVP_PKEY_CTX_set_dhx_rfc5114()` as described in `EVP_PKEY_CTX_ctrl(3)` or by setting the `OSSL_PKEY_PARAM_GROUP_NAME` as specified in "DH parameters" in `EVP_PKEY-DH(7)` to one of "dh\_1024\_160", "dh\_2048\_224" or "dh\_2048\_256".

```
BN_get0_nist_prime_192(), BN_get0_nist_prime_224(),
```

BN\_get0\_nist\_prime\_256(), BN\_get0\_nist\_prime\_384(), and BN\_get0\_nist\_prime\_521() functions return a BIGNUM for the specific NIST prime curve (e.g., P-256).

BN\_get\_rfc2409\_prime\_768(), BN\_get\_rfc2409\_prime\_1024(), BN\_get\_rfc3526\_prime\_1536(), BN\_get\_rfc3526\_prime\_2048(), BN\_get\_rfc3526\_prime\_3072(), BN\_get\_rfc3526\_prime\_4096(), BN\_get\_rfc3526\_prime\_6144(), and BN\_get\_rfc3526\_prime\_8192() functions return a BIGNUM for the specified size from IETF RFC 2409. If bn is not NULL, the BIGNUM will be set into that location as well.

## RETURN VALUES

Defined above.

## HISTORY

The functions DH\_get\_1024\_160(), DH\_get\_2048\_224() and DH\_get\_2048\_256() were deprecated in OpenSSL 3.0.

## COPYRIGHT

Copyright 2016-2021 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the Apache License 2.0 (the "License"). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at <https://www.openssl.org/source/license.html>.

3.0.7                      2023-07-13              DH\_GET\_1024\_160(3ossl)