

NAME

EVP_aria_128_cbc, EVP_aria_192_cbc, EVP_aria_256_cbc, EVP_aria_128_cfb, EVP_aria_192_cfb, EVP_aria_256_cfb, EVP_aria_128_cfb1, EVP_aria_192_cfb1, EVP_aria_256_cfb1, EVP_aria_128_cfb8, EVP_aria_192_cfb8, EVP_aria_256_cfb8, EVP_aria_128_cfb128, EVP_aria_192_cfb128, EVP_aria_256_cfb128, EVP_aria_128_ctr, EVP_aria_192_ctr, EVP_aria_256_ctr, EVP_aria_128_ecb, EVP_aria_192_ecb, EVP_aria_256_ecb, EVP_aria_128_ofb, EVP_aria_192_ofb, EVP_aria_256_ofb, EVP_aria_128_ccm, EVP_aria_192_ccm, EVP_aria_256_ccm, EVP_aria_128_gcm, EVP_aria_192_gcm, EVP_aria_256_gcm, – EVP ARIA cipher

SYNOPSIS

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

```
const EVP_CIPHER *EVP_ciphernamename(void)
```

EVP_ciphernamename is used as a placeholder for any of the described cipher functions, such as *EVP_aria_128_cbc*.

DESCRIPTION

The ARIA encryption algorithm for EVP.

EVP_aria_128_cbc(), **EVP_aria_192_cbc()**, **EVP_aria_256_cbc()**, **EVP_aria_128_cfb()**, **EVP_aria_192_cfb()**, **EVP_aria_256_cfb()**, **EVP_aria_128_cfb1()**, **EVP_aria_192_cfb1()**, **EVP_aria_256_cfb1()**, **EVP_aria_128_cfb8()**, **EVP_aria_192_cfb8()**, **EVP_aria_256_cfb8()**, **EVP_aria_128_cfb128()**, **EVP_aria_192_cfb128()**, **EVP_aria_256_cfb128()**, **EVP_aria_128_ctr()**, **EVP_aria_192_ctr()**, **EVP_aria_256_ctr()**, **EVP_aria_128_ecb()**, **EVP_aria_192_ecb()**, **EVP_aria_256_ecb()**, **EVP_aria_128_ofb()**, **EVP_aria_192_ofb()**, **EVP_aria_256_ofb()**

ARIA for 128, 192 and 256 bit keys in the following modes: CBC, CFB with 128-bit shift, CFB with 1-bit shift, CFB with 8-bit shift, CTR, ECB and OFB.

EVP_aria_128_ccm(), **EVP_aria_192_ccm()**, **EVP_aria_256_ccm()**, **EVP_aria_128_gcm()**, **EVP_aria_192_gcm()**, **EVP_aria_256_gcm()**,

ARIA for 128, 192 and 256 bit keys in CBC-MAC Mode (CCM) and Galois Counter Mode (GCM). These ciphers require additional control operations to function correctly, see the "AEAD INTERFACE" in **EVP_EncryptInit**(3) section for details.

NOTES

Developers should be aware of the negative performance implications of calling these functions multiple times and should consider using **EVP_CIPHER_fetch**(3) with **EVP_CIPHER_ARIA**(7) instead. See "Performance" in **crypto**(7) for further information.

RETURN VALUES

These functions return an **EVP_CIPHER** structure that contains the implementation of the symmetric cipher. See **EVP_CIPHER_meth_new**(3) for details of the **EVP_CIPHER** structure.

SEE ALSO

evp(7), **EVP_EncryptInit**(3), **EVP_CIPHER_meth_new**(3)

COPYRIGHT

Copyright 2017–2025 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>>.