

**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 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)** 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)**

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