

**NAME**

CRYPTO\_memcmp - Constant time memory comparison

**SYNOPSIS**

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

```
int CRYPTO_memcmp(const void *a, const void *b, size_t len);
```

**DESCRIPTION**

The CRYPTO\_memcmp function compares the **len** bytes pointed to by **a** and **b** for equality. It takes an amount of time dependent on **len**, but independent of the contents of the memory regions pointed to by **a** and **b**.

**RETURN VALUES**

**CRYPTO\_memcmp()** returns 0 if the memory regions are equal and nonzero otherwise.

**NOTES**

Unlike **memcmp(2)**, this function cannot be used to order the two memory regions as the return value when they differ is undefined, other than being nonzero.

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