

**NAME**

X509\_check\_ca - check if given certificate is CA certificate

**SYNOPSIS**

```
#include <openssl/x509v3.h>
```

```
int X509_check_ca(X509 *cert);
```

**DESCRIPTION**

This function checks if given certificate is CA certificate (can be used to sign other certificates). The certificate must be a complete certificate otherwise an error is returned.

**RETURN VALUES**

Function return 0, if it is not CA certificate, 1 if it is proper X509v3 CA certificate with **basicConstraints** extension CA:TRUE, 3, if it is self-signed X509 v1 certificate, 4, if it is certificate with **keyUsage** extension with bit **keyCertSign** set, but without **basicConstraints**, and 5 if it has outdated Netscape Certificate Type extension telling that it is CA certificate.

This function will also return 0 on error.

Actually, any nonzero value means that this certificate could have been used to sign other certificates.

**SEE ALSO**

**X509\_verify\_cert(3)**, **X509\_check\_issued(3)**, **X509\_check\_purpose(3)**

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