

NAME

cr1 - CRL utility

SYNOPSIS

```
openssl cr1 [-inform PEM|DER] [-outform PEM|DER] [-text] [-in filename] [-out filename] [-nameopt option] [-noout] [-hash] [-issuer] [-lastupdate] [-nextupdate] [-CAfile file] [-CApath dir]
```

DESCRIPTION

The **cr1** command processes CRL files in DER or PEM format.

COMMAND OPTIONS**-inform DER|PEM**

This specifies the input format. **DER** format is DER encoded CRL structure. **PEM** (the default) is a base64 encoded version of the DER form with header and footer lines.

-outform DER|PEM

This specifies the output format, the options have the same meaning as the **-inform** option.

-in filename

This specifies the input filename to read from or standard input if this option is not specified.

-out filename

specifies the output filename to write to or standard output by default.

-text

print out the CRL in text form.

-nameopt option

option which determines how the subject or issuer names are displayed. See the description of **-nameopt** in *x509(1)*.

-noout

don't output the encoded version of the CRL.

-hash

output a hash of the issuer name. This can be use to lookup CRLs in a directory by issuer name.

-hash_old

outputs the "hash" of the CRL issuer name using the older algorithm as used by OpenSSL versions before 1.0.0.

-issuer

output the issuer name.

-lastupdate

output the lastUpdate field.

-nextupdate

output the nextUpdate field.

-CAfile file

verify the signature on a CRL by looking up the issuing certificate in **file**

-CApath dir

verify the signature on a CRL by looking up the issuing certificate in **dir**. This directory must be a standard certificate directory: that is a hash of each subject name (using **x509 -hash**) should be linked to each certificate.

NOTES

The PEM CRL format uses the header and footer lines:

```
-----BEGIN X509 CRL-----
-----END X509 CRL-----
```

EXAMPLES

Convert a CRL file from PEM to DER:

```
openssl crl -in crl.pem -outform DER -out crl.der
```

Output the text form of a DER encoded certificate:

```
openssl crl -in crl.der -text -noout
```

BUGS

Ideally it should be possible to create a CRL using appropriate options and files too.

SEE ALSO

[crl2pkcs7\(1\)](#), [ca\(1\)](#), [x509\(1\)](#)