

**NAME**

**openssl-dsaparam** - DSA parameter manipulation and generation

**SYNOPSIS**

```
openssl dsaparam [-help] [-inform DER|PEM] [-outform DER|PEM] [-in filename] [-out filename]  
[-noout] [-text] [-genkey] [-verbose] [-rand files] [-writerand file] [-engine id] [-provider name]  
[-provider-path path] [-propquery propq] [numbits]
```

**DESCRIPTION**

This command is used to manipulate or generate DSA parameter files.

DSA parameter generation can be a slow process and as a result the same set of DSA parameters is often used to generate several distinct keys.

**OPTIONS****-help**

Print out a usage message.

**-inform DER|PEM**

The DSA parameters input format; unspecified by default. See **openssl-format-options(1)** for details.

**-outform DER|PEM**

The DSA parameters output format; the default is **PEM**. See **openssl-format-options(1)** for details.

Parameters are a sequence of **ASN.1 INTEGERs**: **p**, **q**, and **g**. This is compatible with RFC 2459 **DSS-Parms** structure.

**-in *filename***

This specifies the input filename to read parameters from or standard input if this option is not specified. If the *numbits* parameter is included then this option will be ignored.

**-out *filename***

This specifies the output filename parameters to. Standard output is used if this option is not present. The output filename should **not** be the same as the input filename.

**-noout**

This option inhibits the output of the encoded version of the parameters.

**-text**

This option prints out the DSA parameters in human readable form.

**-genkey**

This option will generate a DSA either using the specified or generated parameters.

**-verbose**

Print extra details about the operations being performed.

**-rand files, -writerand file**

See "Random State Options" in **openssl(1)** for details.

**-engine id**

See "Engine Options" in **openssl(1)**. This option is deprecated.

*numbits*

This option specifies that a parameter set should be generated of size *numbits*. It must be the last option. If this option is included then the input file (if any) is ignored.

**-provider name****-provider-path path****-propquery propq**

See "Provider Options" in **openssl(1)**, **provider(7)**, and **property(7)**.

**SEE ALSO**

**openssl(1)**, **openssl-pkeyparam(1)**, **openssl-gendsa(1)**, **openssl-dsa(1)**, **openssl-genrsa(1)**, **openssl-rsa(1)**

**HISTORY**

The **-engine** option was deprecated in OpenSSL 3.0.

The **-C** option was removed in OpenSSL 3.0.

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