

**NAME**

openssl-engine, engine – load and query engines

**SYNOPSIS**

```
openssl engine [ engine... ] [-v] [-vv] [-vvv] [-vvv] [-vvv] [-c] [-t] [-tt] [-pre command] [-post command] [ engine... ]
```

**DESCRIPTION**

The **engine** command is used to query the status and capabilities of the specified **engine**'s. Engines may be specified before and after all other command-line flags. Only those specified are queried.

**OPTIONS**

**-v -vv -vvv -vvvv**

Provides information about each specified engine. The first flag lists all the possible run-time control commands; the second adds a description of each command; the third adds the input flags, and the final option adds the internal input flags.

**-c** Lists the capabilities of each engine.

**-t** Tests if each specified engine is available, and displays the answer.

**-tt** Displays an error trace for any unavailable engine.

**-pre *command***

**-post *command***

Command-line configuration of engines. The **-pre** command is given to the engine before it is loaded and the **-post** command is given after the engine is loaded. The *command* is of the form *cmd:val* where *cmd* is the command, and *val* is the value for the command. See the example below.

**EXAMPLE**

To list all the commands available to a dynamic engine:

```
$ openssl engine -t -tt -vvvv dynamic
(dynamic) Dynamic engine loading support
[ unavailable ]
SO_PATH: Specifies the path to the new ENGINE shared library
(input flags): STRING
NO_VCHECK: Specifies to continue even if version checking fails (boolean)
(input flags): NUMERIC
ID: Specifies an ENGINE id name for loading
(input flags): STRING
LIST_ADD: Whether to add a loaded ENGINE to the internal list (0=no,1=yes,2=
(input flags): NUMERIC
DIR_LOAD: Specifies whether to load from 'DIR_ADD' directories (0=no,1=yes,2=
(input flags): NUMERIC
DIR_ADD: Adds a directory from which ENGINES can be loaded
(input flags): STRING
LOAD: Load up the ENGINE specified by other settings
(input flags): NO_INPUT
```

To list the capabilities of the *rsax* engine:

```
$ openssl engine -c
(rsax) RSAX engine support
[RSA]
(dynamic) Dynamic engine loading support
```

**ENVIRONMENT****OPENSSL\_ENGINES**

The path to the engines directory.

**SEE ALSO**

**config** (5)

**COPYRIGHT**

Copyright 2016–2018 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the OpenSSL license (the “License”). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at [<https://www.openssl.org/source/license.html>](https://www.openssl.org/source/license.html).