

**NAME**

ipptool – perform internet printing protocol requests

**SYNOPSIS**

```
ipptool [ --help ] [ --stop-after-include-error ] [ --version ] [ -4 ] [ -6 ] [ -C ] [ -E ] [ -I ] [ -L ] [
-P filename.plist ] [ -S ] [ -T seconds ] [ -V version ] [ -X ] [ -c ] [ -d name=value ] [ -f filename ] [
-h ] [ -i seconds ] [ -n repeat-count ] [ -q ] [ -t ] [ -v printer-uri testfile [ ... testfile ]
```

**DESCRIPTION**

**ipptool** sends IPP requests to the specified *printer-uri* and tests and/or displays the results. Each named *testfile* defines one or more requests, including the expected response status, attributes, and values. Output is either a plain text, formatted text, CSV, or XML report on the standard output, with a non-zero exit status indicating that one or more tests have failed. The *testfile* format is described in **ipptoolfile(5)**.

**OPTIONS**

The following options are recognized by **ipptool**:

**--help**

Shows program help.

**--stop-after-include-error**

Tells **ipptool** to stop if an error occurs in an included file. Normally **ipptool** will continue with subsequent tests after the INCLUDE directive.

**--version**

Shows the version of **ipptool** being used.

**-4** Specifies that **ipptool** must connect to the printer or server using IPv4.

**-6** Specifies that **ipptool** must connect to the printer or server using IPv6.

**-C** Specifies that requests should be sent using the HTTP/1.1 "Transfer-Encoding: chunked" header, which is required for conformance by all versions of IPP. The default is to use "Transfer-Encoding: chunked" for requests with attached files and "Content-Length:" for requests without attached files.

**-E** Forces TLS encryption when connecting to the server using the HTTP "Upgrade" header.

**-I** Specifies that **ipptool** will continue past errors.

**-L** Specifies that requests should be sent using the HTTP/1.0 "Content-Length:" header, which is required for conformance by all versions of IPP. The default is to use "Transfer-Encoding: chunked" for requests with attached files and "Content-Length:" for requests without attached files.

**-P filename.plist**

Specifies that the test results should be written to the named XML (Apple plist) file in addition to the regular test report (**-t**). This option is incompatible with the **-i** (interval) and **-n** (repeat-count) options.

**-S** Forces (dedicated) TLS encryption when connecting to the server.

**-T seconds**

Specifies a timeout for IPP requests in seconds.

**-V version**

Specifies the default IPP version to use: 1.0, 1.1, 2.0, 2.1, or 2.2. If not specified, version 1.1 is used.

**-X** Specifies that XML (Apple plist) output is desired instead of the plain text report. This option is incompatible with the **-i** (interval) and **-n** (repeat-count) options.

**-c** Specifies that CSV (comma-separated values) output is desired instead of the plain text output.

**-d name=value**

Defines the named variable.

- f** *filename*  
Defines the default request filename for tests.
- h** Validate HTTP response headers.
- i** *seconds*  
Specifies that the (last) *testfile* should be repeated at the specified interval. This option is incompatible with the **-X** (XML plist output) option.
- l** Specifies that plain text output is desired.
- n** *repeat-count*  
Specifies that the (last) *testfile* should be repeated the specified number of times. This option is incompatible with the **-X** (XML plist output) option.
- q** Be quiet and produce no output.
- t** Specifies that CUPS test report output is desired instead of the plain text output.
- v** Specifies that all request and response attributes should be output in CUPS test mode (**-t**). This is the default for XML output.

## EXIT STATUS

The **ipptool** program returns 0 if all tests were successful and 1 otherwise.

## FILES

The following standard files are available:

*color.jpg*  
*create-printer-subscription.test*  
*document-a4.pdf*  
*document-a4.ps*  
*document-letter.pdf*  
*document-letter.ps*  
*get-completed-jobs.test*  
*get-jobs.test*  
*get-notifications.test*  
*get-printer-attributes.test*  
*get-subscriptions.test*  
*gray.jpg*  
*ipp-1.1.test*  
*ipp-2.0.test*  
*ipp-2.1.test*  
*ipp-2.2.test*  
*ipp-everywhere.test*  
*onepage-a4.pdf*  
*onepage-a4.ps*  
*onepage-letter.pdf*  
*onepage-letter.ps*  
*print-job.test*  
*print-job-deflate.test*  
*print-job-gzip.test*  
*testfile.jpg*  
*testfile.pcl*  
*testfile.pdf*  
*testfile.ps*  
*testfile.txt*  
*validate-job.test*

**CONFORMING TO**

The **ipptool** program is unique to CUPS and conforms to the Internet Printing Protocol up to version 2.2.

**EXAMPLES**

Get a list of completed jobs for "myprinter":

```
ipptool ipp://localhost/printers/myprinter get-completed-jobs.test
```

Send email notifications to "user@example.com" when "myprinter" changes:

```
ipptool -d recipient=mailto:user@example.com \  
ipp://localhost/printers/myprinter create-printer-subscription.test
```

**SEE ALSO**

**ipptoolfile(5)**, IANA IPP Registry (<http://www.iana.org/assignments/ipp-registrations>), PWG Internet Printing Protocol Workgroup (<http://www.pwg.org/ipp>) RFC 8011 (<http://tools.ietf.org/html/rfc8011>),

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