

Table Of Contents

Table Of Contents ..... 1

Understanding I/O streams numbers ..... 2

    Redirecting the standard error stream to a file ..... 2

    Redirecting the standard error (stderr) and stdout to file ..... 2

    Redirect stderr to stdout ..... 2

[Home](#) > [Faq](#) > [BASH Shell](#)

## BASH Shell: How To Redirect stderr To stdout ( redirect stderr to a File )

Posted by [Vivek Gite](#) <[vivek@nixcraft.com](mailto:vivek@nixcraft.com)>

**Q.** How do I redirect stderr to stdout? How do I redirect stderr to a file?

**A.** Bash and other modern shell provides I/O redirection facility. There are 3 default standard files (standard streams) open:

[a] **stdin** - Use to get input (keyboard) i.e. data going into a program.

[b] **stdout** - Use to write information (screen)

[c] **stderr** - Use to write error message (screen)

[1]

## Understanding I/O streams numbers

The Unix / Linux standard I/O streams with numbers:

Handle	Name	Description
0	stdin	Standard input
1	stdout	Standard output
2	stderr	Standard error

### Redirecting the standard error stream to a file

The following will redirect program error message to a file called error.log:

```
$ program-name 2> error.log
$ command1 2> error.log
```

### Redirecting the standard error (stderr) and stdout to file

Use the following syntax:

```
$ command-name &>file
```

OR

```
$ command > file-name 2>&1
```

Another useful example:

```
# find /usr/home -name .profile 2>&1 | more
```

### Redirect stderr to stdout

Use the command as follows:

```
$ command-name 2>&1
```

4000+ howtos and counting! Want to read more Linux / UNIX howtos, tips and tricks? Subscribe to our [daily email](#) newsletter or [weekly newsletter](#) to make sure you don't miss a single tip/tricks. Alternatively, subscribe via [RSS/XML](#) feed.

Article printed from Frequently Asked Questions About Linux / UNIX: <http://www.cyberciti.biz/faq/>

URL to article: <http://www.cyberciti.biz/faq/redirecting-stderr-to-stdout/>

URLs in this post:

[1] Image: <http://www.cyberciti.biz/faq/faq/category/bash-shell/>

---

Copyright © 2006-2010 [nixCraft](http://www.cyberciti.biz/). All rights reserved. This print / pdf version is for personal non-commercial use only. More details <http://www.cyberciti.biz/tips/copyright>.