

**NAME**

fd2 – redirect from/to file descriptor 2

**SYNOPSIS**

**fd2** [-e] [-f *file*] [--] *command* [*arg* ...]

**DESCRIPTION**

Since the Sixth Edition UNIX shell provides no way to redirect the diagnostic output, **fd2** makes this possible by executing the specified *command* with the given arguments and redirecting file descriptor 2 (standard error) to file descriptor 1 (standard output) by default.

The options are as follows:

- e Causes all conventional output from *command* to be redirected to the standard error as diagnostic output.
- f *file* Causes all diagnostic output from *command* to be redirected to *file*, which is created if it does not exist. If it already exists, all diagnostic output is appended to the end of *file*.
- Causes **fd2** to stop further option processing, forcing it to treat all following arguments as *command* [*arg* ...] .

**EXIT STATUS**

If **fd2** detects an error, it prints an appropriate diagnostic and exits with a non-zero status. Otherwise, the exit status is that of the executed command.

**ENVIRONMENT****EXECShell**

If set to a non-empty string, the value of this variable is taken as the path name of the shell which is invoked to execute the specified command when it does not begin with the proper magic number or a '#!shell' sequence.

**PATH** If set to a non-empty string, the value of this variable is taken as the sequence of directories which is used to search for the specified command.

**EXAMPLES**

The examples below which refer to '/tmp/\$\$' assume that this directory exists and is writable by the user. The following command line:

```
fd2 -e echo progname: Error message
```

causes all conventional output from *echo* to be redirected to the standard error as diagnostic output. The following command line:

```
fd2 make foo >/tmp/$$/foo.outerr
```

causes all conventional and diagnostic output from *make* to be redirected to the file '/tmp/\$\$/foo.outerr', which is first created by the shell. In contrast:

```
fd2 -f /tmp/$$/foo.err make foo >/tmp/$$/foo.out
```

causes all conventional output to be redirected to the file '/tmp/\$\$/foo.out', which is created by the shell. All diagnostic output is redirected to the file '/tmp/\$\$/foo.err', which is created by **fd2** if it does not already exist.

**SEE ALSO**

osh(1), sh6(1)

Osh home page: <http://v6shell.org/>

**AUTHOR**

This implementation of **fd2** is written by Jeffrey Allen Neitzel.

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