

Fifth Session

Reto Kromer • AV Preservation by [reto.ch](#)

Bash for Archivists
Part 3: Advanced Level
7th and 9th July 2020

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built-in commands (2)

local [options] name[=value]

printf format [value_n]

printf -v variable format [value_n]

read [options] [variables]

return [number]

3

built-in commands (1)

cd [options] [path]

echo [options] [string]

exit [number]

getopts string name [arguments]

2

built-in commands (3)

unset [options] name_n

4

external commands (1)

```
ffmpeg [global_options]  
[input_options_n] -i input_file_n  
[output_options_n] output_file_n
```

```
ffplay [input_options] input_file
```

```
ffprobe [input_options] input_file
```

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external commands (2)

```
cat [options] file_n
```

```
date ``
```

```
grep [options] pattern file_n
```

```
head [options] file_n
```

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external commands (1.1)

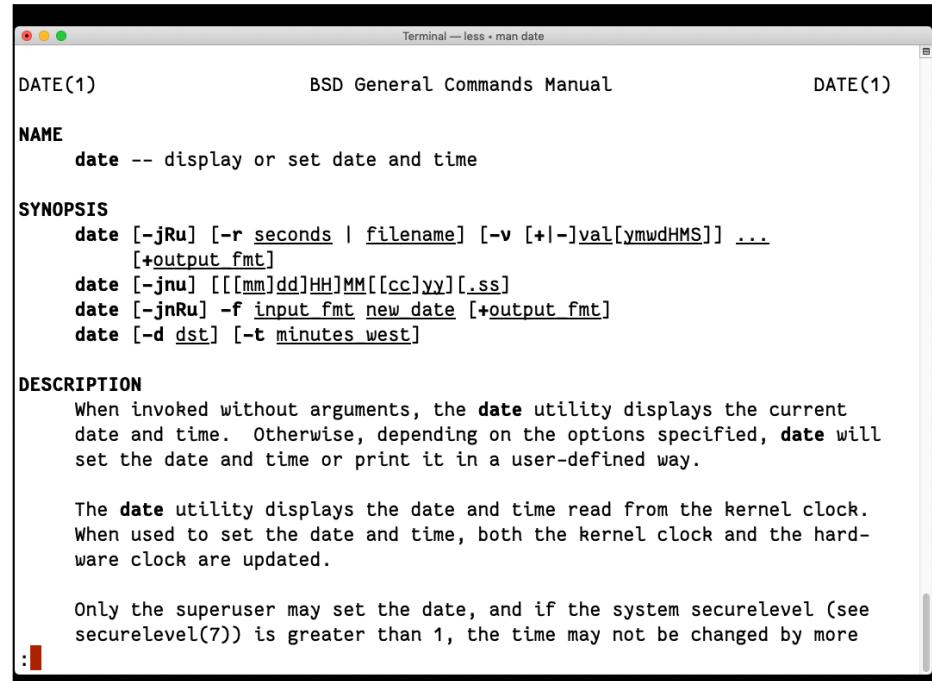
```
ffmpeg
```

```
[global_options]
```

```
[input_options_n]  
-i input_file_n
```

```
[output_options_n]  
output_file_n
```

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The screenshot shows a terminal window with the title "Terminal — less + man date". The man page for the "date" command is displayed. The title bar includes "DATE(1)", "BSD General Commands Manual", and "DATE(1)". The page is divided into sections: NAME, SYNOPSIS, DESCRIPTION, and SEE ALSO. The SYNOPSIS section lists various command-line options for setting and displaying dates and times. The DESCRIPTION section explains the utility's function and behavior, noting it only affects the kernel clock if run by a superuser.

```
DATE(1)          BSD General Commands Manual          DATE(1)

NAME
    date -- display or set date and time

SYNOPSIS
    date [-jRu] [-r seconds | filename] [-v [+|-]val[ymwdHMS]] ...
          [+output_fmt]
    date [-jnu] [[[mm]dd]HH]MM[[cc]yy][..ss]
    date [-jnRu] -f input_fmt new_date [+output_fmt]
    date [-d dst] [-t minutes west]

DESCRIPTION
    When invoked without arguments, the date utility displays the current
    date and time. Otherwise, depending on the options specified, date will
    set the date and time or print it in a user-defined way.

    The date utility displays the date and time read from the kernel clock.
    When used to set the date and time, both the kernel clock and the hard-
    ware clock are updated.

    Only the superuser may set the date, and if the system securelevel (see
    securelevel(7)) is greater than 1, the time may not be changed by more
    than 10 minutes.
```

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external commands (3)

`ls [options] [path]`

`md5 [options] file_n`

`md5 -s string`

`mkdir [options] directory_n`

9

syntax for an **if** statement

`if condition ; then`

`commands`

`elif condition_n ; then`

`commands_n`

`else`

`commands`

`fi`

11

external commands (4)

`mktemp [options] template_n`

`mktemp [options] -t prefix`

`rm [options] file_n`

`tee [options] file_n`

10

syntax for a **case** statement

`case variable in`

`value_n)`

`commands_n`

`;;`

`esac`

12

syntax for a **while** statement

```
while condition ; do  
    commands  
done
```

13

syntax for a **select** statement

```
select item [in list] ; do  
    commands  
done
```

15

syntax for a **for** statement

```
for item [in list] ; do  
    commands  
done
```



```
for (( init; cond; incr )) ; do  
    commands  
done
```

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